



FUJIFILM

DIGITAL CAMERA




FinePix S3Pro

SERVICE MANUAL

US/CA/EU/EG/GE/AS/JP-Model



WARNING

- THE COMPONENTS IDENTIFIED BY THE MARK “” ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR SAFETY. PLEASE REPLACE ONLY BY THE COMPONENTS SPECIFIED ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST.
- IF YOU USE PARTS NOT SPECIFIED, IT MAY RESULT IN A FIRE AND AN ELECTRICAL SHOCK.

SAFETY CHECK-OUT

After correcting the original problem, perform the following safety check before return the product to the customer.

1. Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splasher and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the B + voltage to see it is at the values specified.
6. Make leakage - current measurements to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.



RISK OF FIRE-
REPLACE FUSE
AS MARKED

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE 2.5 AMPERES 125V FUSE.

ATTENTION: AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE, REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME, TYPE 2.5 AMPERES, 125 VOLTS.

8.



WARNING!
HIGH VOLTAGE

WARNING:
TO REDUCE THE ELECTRIC SHOCK, BE CAREFUL TO TOUCH THE PARTS.

TABLE CONTENTS

| | | | |
|--|----|--|-----|
| 1. General | 4 | 4-6. Initial Settings of the Adjustment Software | 45 |
| 1-1. Product specification | 4 | 4-7. Starting the Adjustment Software | 48 |
| 1-2. Explanation of Terms | 7 | 4-8. [F4] : CCD Defect Correction | 51 |
| 1-3. Names of External Components | 8 | 4-9. [F5] : CAMERA Adjustment | 53 |
| 2. Disassembly | 11 | 4-10. [F1] : Battery Voltage Adjustment | 56 |
| 2-1. Names of internal Components | 11 | 4-11. [F11] : Video Adjustment | 60 |
| 2-2. Removing the BATT CART ASSY | 12 | 4-12. [F2] : Rear LCD Panel Adjustment | 62 |
| 2-3. Removing the R CABI ASSY | 12 | 4-13. [F8] : Firmware Download | 64 |
| 2-4. Removing the SW PWB ASSY | 13 | 4-14. [F12] : End Setting | 66 |
| 2-5. Removing the LCD | 15 | 5. Inspection | 71 |
| 2-6. Removing the 10-pin TERMINAL ASSY | 15 | 5-1. Measuring Instruments and Jigs Used for | |
| 2-7. Removing the BATTERY HOLDER | 15 | Inspection | 71 |
| 2-8. Removing the MAIN PWB ASSY | 16 | 5-2. Connection of Measuring Instruments for | |
| 2-9. Removing the CCD PWB ASSY and CCD UNIT | 17 | Inspection | 71 |
| 2-10. How to dismantle the parts around the outer | | 5-3. Inspection and Settings at Shipment | 72 |
| wrappings | 19 | 5-4. Resolution Checking | 76 |
| 2-10-1. Removing TOP COVER UNIT | 19 | 5-5. CCD Cleaning and Inspection Procedures | 78 |
| 2-10-2. Removing SB LOWER CASE UNIT | 21 | 5-5-1. CCD Cleaning Using a | |
| 3. Schematic | 23 | Visual Inspection for Dusting | 78 |
| 3-1. Cautions | 23 | 5-5-2. CCD Cleaning Using | |
| 3-2. Basic block name and function explanation | 23 | Test Photography to Detect Dusting | 79 |
| 3-3. Description of the Main Block Functions | 23 | 5-6. AF Checking | 80 |
| 3-3-1. Overview of the new technology | 23 | 5-6-1. Measuring equipment and tools | |
| 3-3-2. Block function descriptions | 24 | used for AF checking | 80 |
| 3-3-3. Description of the Power Supply Block | | 5-6-2. Settings for the measuring equipment | |
| Functions | 24 | and tools used for AF checking | 80 |
| 3-4. Block Diagram | 25 | 5-6-3. AF testing procedure | 81 |
| 3-5. Overall connection Diagram | 26 | 5-6-4. Cause identification procedure for | |
| 3-6. Circuit Diagrams | 27 | focus-related problems | 82 |
| 3-6-1. CCD BLOCK | 27 | 6. Parts List | 83 |
| 3-6-2. DCDC BLOCK | 28 | 6-1. Packing and Accessories | 83 |
| 3-6-3. IEEE1394 BLOCK | 29 | 6-1-1. US-model | 83 |
| 3-6-4. PROCESS BLOCK | 30 | 6-1-2. CA-model | 84 |
| 3-6-5. CARD BLOCK | 31 | 6-1-3. EU-model | 85 |
| 3-6-6. DCDC BLOCK (CAMERA BODY) | 31 | 6-1-4. EG-model | 86 |
| 3-6-7. PARTNER-CHIP BLOCK | 32 | 6-1-5. GE-model | 87 |
| 3-6-8. PWON BLOCK | 33 | 6-1-6. AS-model | 88 |
| 3-6-9. USB2.0 BLOCK | 34 | 6-1-7. JP-model | 89 |
| 3-6-10. LCD BLOCK | 35 | 6-2. Transportable form and necessary parts for | |
| 3-6-11. SW BLOCK | 36 | camera body repair | 90 |
| 3-7. Mounted Parts Diagrams | 37 | 6-3. CAMERA BODY | 91 |
| 3-7-1. CCD PWB ASSY | 37 | 6-4. R CABI | 92 |
| 3-7-2. MAIN PWB ASSY | 38 | 6-5. Internal parts | 93 |
| 3-7-3. SW PWB ASSY | 40 | 6-5-1. US/CA-model | 93 |
| 4. Adjustments | 41 | 6-5-2. EU/EG/GE/AS-model | 94 |
| 4-1. Important point Adjustment when | | 6-5-3. JP-model | 95 |
| Replacing Major Parts | 41 | 6-6. List of parts related to exterior | 96 |
| 4-2. Measuring Instruments Used | 41 | 6-6-1. TOP COVER 1 | 96 |
| 4-3. Use Jig list | 41 | 6-6-2. TOP COVER 2 | 97 |
| 4-4. Calibration method of pattern box | 43 | 6-6-3. TOP COVER 3 | 98 |
| 4-5. Adjusting soft installation | 43 | 6-6-4. CAMERA BODY External | 99 |
| 4-5-1. Various downloading software | | 6-7. Electrical parts | 100 |
| decompressions, preservation methods, | | 7. Appendix | 101 |
| and notes | 43 | 7-1. List of Related Technical Updates Issued | 101 |
| 4-5-2. Installation of DSC jig driver | 44 | | |
| 4-5-3. Adjusting soft initiation method | 44 | | |

1. General

1-1. Product specification

| System | |
|---------------------------|--|
| Model | Digital camera FinePix S3 Pro |
| Effective pixels | 12.34 million (S-pixel: 6.17 million, R-pixel: 6.17 million) pixels |
| CCD | Large-format (23.0 × 15.5 mm) Super CCD SR II with primary color filter Total 12.9 megapixels (S-pixels: 6.45 million; R-pixels: 6.45 million) |
| Storage media | xD-Picture Card (16/32/64/128/256/512 MB) CF card and Microdrive TM (FAT32-compatible) (Compatibility is listed on Fujifilm website: http://home.fujifilm.com/products/digital/) |
| File format | DCF-compliant Compressed: Exif Ver.2.21 JPEG, DPOF-compatible Uncompressed: CCD-RAW (RAF)*1 |
| Max. recording resolution | 4256 × 2848 (12.1 million) |
| Number of recorded pixels | 4256 × 2848 pixels/3024 × 2016 pixels/2304 × 1536 pixels/1440 × 960 pixels |
| Lens mount | Nikon F mount (with AF coupling and AF contacts) |
| Focal length | Approx. 1.5× the nominal focal length of the lens (35mm camera equivalent) |
| Sensitivity | ISO 100/160/200/400/800/1600 *2 |
| Metering modes | TTL open metering/3D 10-zone Matrix, Center-weighted, Spot |
| Exposure control | Program AE, Shutter-priority AE, Aperture-priority AE, Manual exposure |
| Exposure compensation | -3.0 EV to +3.0 EV 1/2 EV step |
| Shutter | Electronically controlled vertical-travel focal-plane shutter |
| Shutter speeds | 30 to 1/4000 sec, Bulb X contact: Max. 1/180 sec. *3 |
| Continuous shooting | Max. 2.5 frames/sec.: Up to max. 12 frames. (D-range: Standard; JPEG mode) Up to max. 7 frames. (D-range: Standard; RAW mode) Max. 1 frame/sec.: Up to max. 6 frames. (D-range: Wide; JPEG mode) Max. 1.4 frames/sec.: Up to max. 3 frames. (D-range: Wide; RAW mode) |
| Auto bracketing | ±0.5 EV, ±1.0 EV, ±1.5 EV, ±2.0 EV, |
| Focus | Mode: Single-AF servo, Continuous AF servo, Manual AF system: TTL phase difference detection with auxiliary AF flash AF frame selection: Single-area AF, Dynamic AF (Dynamic AF Mode with Closest Subject Priority is available) |
| White balance | Automatic scene recognition/Preset (Fine, Shade, Fluorescent (Daylight), Fluorescent (Warm White), Fluorescent (Cool White), Incandescent, Custom (2 settings)) |
| Self-timer | 20 sec./10 sec./5 sec./2 sec. |
| Flash | Manual pop-up, D-3D Multi-BL flash control, D Multi-BL flash control, Standard D-TTL flash control Guide No.: 12 (ISO 100-m); Sync. shutter speed: 1/180 sec. or slower |
| Flash modes | Front Synchro, Slow Synchro, Rear synchro, Red-eye Reduction and Red-eye Reduction Slow Synchro, suppressed flash |
| Accessory shoe | Standard ISO-type with hot-shoe contact (Safty lock provided) |
| Synchro contacts | X contacts only, synchronizing speed: 1/180 sec. or slower |
| Synchro terminal | Equipped with ISO 519 synchro terminal as standard, lock screw provided |
| Viewfinder | Eye-level pentaprism (coverage: Approx. 93% vertical, approx. 95% horizontal), dioptic adjustment mechanism, viewfinder magnification approx. 0.8×) |
| LCD monitor | 2.0-inch 235,000-pixels low-temperature polysilicon TFT color LCD panel (approx. 100% coverage for playback) |
| Remote release | Release socket built into the shutter release button 10-pin remote release terminal provided on camera body front |
| Photography functions | Color space selection, dynamic range selection, film simulation mode selection, framing guideline, frame no. memory, multiple-exposure shooting, shutter button for vertical shooting, live image |
| Playback functions | Trimming, Auto Play, multi-frame playback, histogram display, brightness warning display |
| Other functions | PictBridge compatibility, Exif Print compatibility, PRINT Image Matching II compatibility, language selection (Japanese, English, French, German, Spanish, Italian, Chinese), discharging function |

Power Supply and Others

| Power supply | <p>Use one of the following:</p> <ul style="list-style-type: none"> • 4× AA-size Ni-MH (Nickel-Metal Hydride) batteries • AC Power Adapter AC-5VX (sold separately) | | | | |
|---|---|--------------|---------------------|--------------------------|--------------------|
| Dimensions and weight (W × H × D) | <p>Camera body dimensions: 147.8 mm × 135.3 mm × 78.5 mm/5.8 in. × 5.3 in. × 3.1 in. (excluding lens and attachments)</p> <p>Camera body weight: 815 g/28.7 oz (excluding lens, batteries and recording media)</p> <p>Weight when shooting: Dependent on the lens used</p> | | | | |
| Operating conditions | <p>Temperature: 0°C to +40°C. (+32°F to +104°F)</p> <p>*Note that the range for Microdrive is +5°C to +40°C (+41°F to +104°F).</p> <p>Humidity: 80% or less (no condensation)</p> | | | | |
| Guide to the number of available frames for battery operation | <table border="1"> <thead> <tr> <th>Battery Type</th><th>With LCD monitor ON</th></tr> </thead> <tbody> <tr> <td>Ni-MH batteries 2300 mAh</td><td>Approx. 400 frames</td></tr> </tbody> </table> <p>According to the CIPA (Camera & Imaging Products Association) standard procedure for measuring digital still camera battery consumption (extract):</p> <p>When using Ni-MH batteries, use the batteries supplied with the camera. The storage media should be xD-Picture Card.</p> <p>Shots taken at 23°C, one shot every 30 seconds using a 50mm AF1.4D lens with 1-time AF operation, full flash for every other shot, the camera turned off/on every 10 shots and auxiliary AF lighting turned off.</p> <p>• Note: Because the number of available shots varies depending on the level of charge in Ni-MH batteries, the figures shown here for the number of available shots using batteries are not guaranteed.</p> <p>The number of available shots will also decline at low temperatures.</p> | Battery Type | With LCD monitor ON | Ni-MH batteries 2300 mAh | Approx. 400 frames |
| Battery Type | With LCD monitor ON | | | | |
| Ni-MH batteries 2300 mAh | Approx. 400 frames | | | | |
| Accessories | <ul style="list-style-type: none"> • AA-size Ni-MH Batteries (HR-AA) (4) • Battery charger BCH-NH2 (1) *Plug-in and cord-attached types are provided depending on the intended country of use. • Strap (1) • Eyepiece cap (1) • Camera body cap (1) • Video cable (1) (approx. 1.5 m (4.9ft.), mini-plug (3.5 mm-dia.) to pin-plug cable) • IEEE 1394 4-pin to 6-pin cable (1) (approx. 1.5 m (4.9ft.)) • USB cable (mini-B) (1) • Synchronizing terminal cap (1) • Remote release socket cap (1) • Battery holder (1) • CD-ROM: Software for FinePix AX (1) • Owner's Manual (1) • xD-Picture Card DPC-16 (16 MB)/DPC-32 (32 MB)/DPC-64 (64 MB)/DPC-128 (128 MB)/DPC-256 (256 MB)/DPC-512 (512 MB) • AC Power Adapter AC-5VX • Fujifilm Rechargeable Battery 2HR-3UF • Fujifilm Battery Charger with Battery BK-NH2 (With Euro type or UK type plug) • Image Memory Card Reader DPC-R1 <ul style="list-style-type: none"> • Compatible with Windows 98/98 SE, Windows Me, Windows 2000 Professional, Windows XP or iMac, Mac OS 8.6 to 9.2.2, Mac OS X (10.1.2 to 10.2.2) and models that support USB as standard. • Compatible with xD-Picture Card of 16 MB to 512 MB, and SmartMedia of 3.3 V, 4 MB to 128 MB. • PC Card Adapter DPC-AD <ul style="list-style-type: none"> • Compatible with xD-Picture Card of 16 MB to 512 MB, and SmartMedia of 3.3 V, 2 MB to 128 MB. • CompactFlash Card Adapter DPC-CF <ul style="list-style-type: none"> • Windows 95/98/98 SE/Me/2000 Professional/XP • Mac OS 8.6 to 9.2/X (10.1.2 to 10.1.5) • xD-Picture Card USB Drive DPC-UD1 <ul style="list-style-type: none"> • Compatible with xD-Picture Card of 16 MB to 512 MB • Windows 98/98 SE/Me/2000 Professional/XP • Mac OS 9.0 to 9.2/X (10.0.4 to 10.2.6) • Hyper-Utility Software HS-V2 Ver.3.0 | | | | |
| Optional accessories | | | | | |






- *1: CCD-RAW is a format specific to the FinePix S3 Pro. The enclosed “FinePixViewer” software or the optional Hyper-Utility software “HS-V2 Ver. 3.0” is required to interpret the images.
- *2: Images shot in high-sensitivity photography (ISO 400 or higher) may appear coarse and may also be affected by noise such as white dots.
- *3: Images shot with long exposures (about 4 second or longer) may appear coarse and may also be affected by noise such as white dots.

Input/Output Terminals

| | |
|-------------------|--|
| Video output | NTSC/PAL selectable |
| Digital Interface | USB 2.0 (High-speed), IEEE 1394 |
| DC input | Socket for specified AC Power adapter AC-5VX (sold separately) |

■ Standard Number of Available Shots per Media

The number of available shots varies slightly depending on the type of subject. Also, the discrepancy between the actual number of available shots and the standard number grows as the capacity of the media increases.

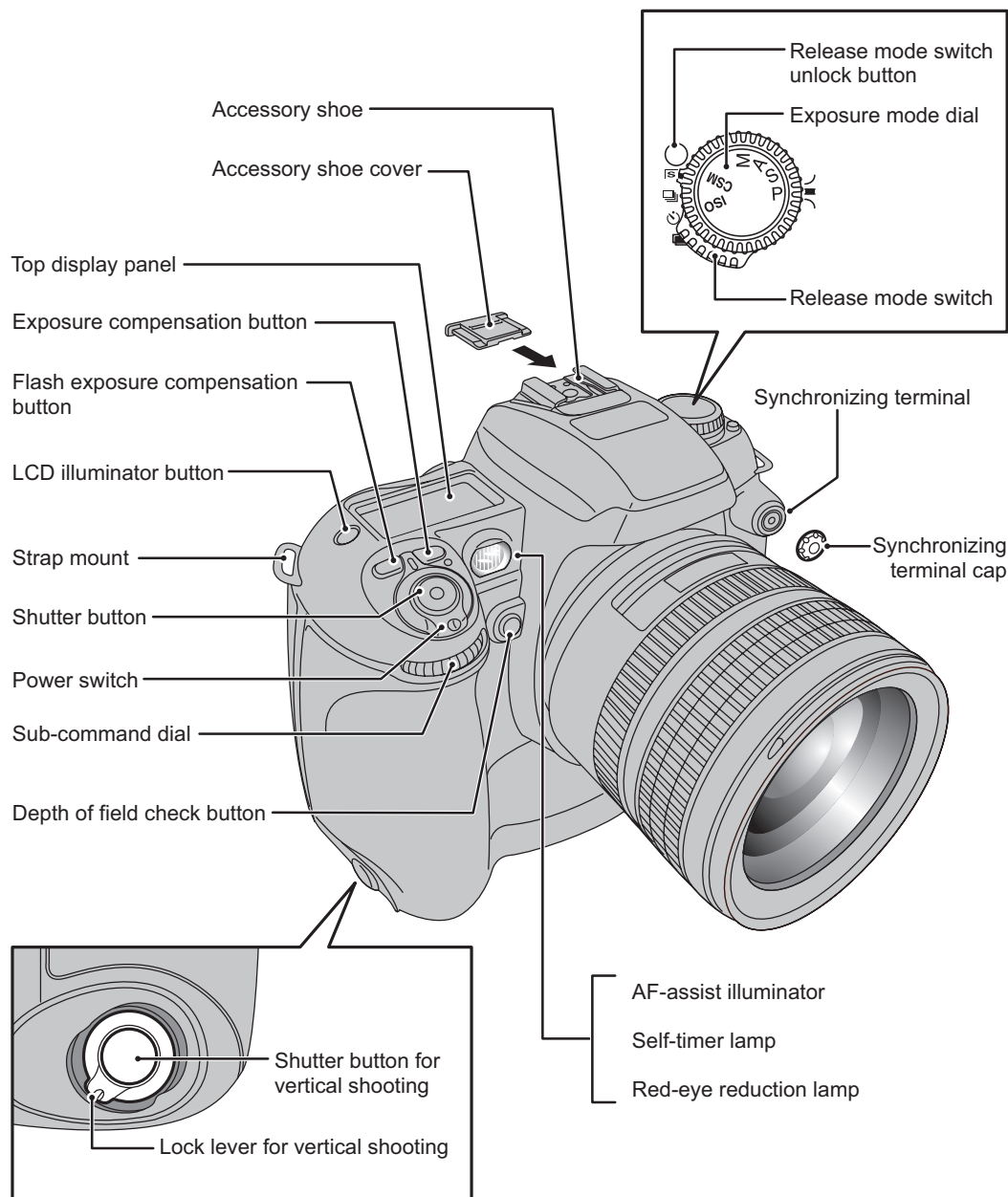
| Number of recorded pixels |  CCD-RAW | |  4256 × 2848 | |  3024 × 2016 | |  2304 × 1536 | |  1440 × 960 | |
|---------------------------|---|------------------|---|----------------|---|----------------|---|----------------|--|----------------|
| Quality Mode | HIGH | | FINE | NORMAL | FINE | NORMAL | FINE | NORMAL | FINE | NORMAL |
| | D-RANGE WIDE | D-RANGE STANDARD | | | | | | | | |
| Image File Size | Approx. 25 MB | Approx. 13 MB | Approx. 4.7 MB | Approx. 2.4 MB | Approx. 3.0 MB | Approx. 1.5 MB | Approx. 1.7 MB | Approx. 880 KB | Approx. 1 MB | Approx. 520 KB |
| DPC-16 (16 MB) | 0 | 1 | 3 | 6 | 5 | 10 | 8 | 17 | 14 | 29 |
| DPC-32 (32 MB) | 1 | 2 | 6 | 13 | 10 | 20 | 17 | 35 | 30 | 59 |
| DPC-64 (64 MB) | 2 | 4 | 13 | 26 | 21 | 42 | 36 | 72 | 61 | 120 |
| DPC-128 (128 MB) | 5 | 9 | 26 | 53 | 42 | 84 | 72 | 144 | 122 | 241 |
| DPC-256 (256 MB) | 10 | 19 | 53 | 107 | 85 | 169 | 146 | 290 | 245 | 484 |
| DPC-512 (512 MB) | 20 | 39 | 107 | 214 | 170 | 339 | 292 | 580 | 491 | 967 |
| Microdrive (340 MB) | 13 | 27 | 73 | 146 | 116 | 232 | 200 | 396 | 338 | 671 |
| Microdrive (1 GB) | 41 | 81 | 220 | 437 | 349 | 698 | 597 | 1173 | 995 | 1932 |

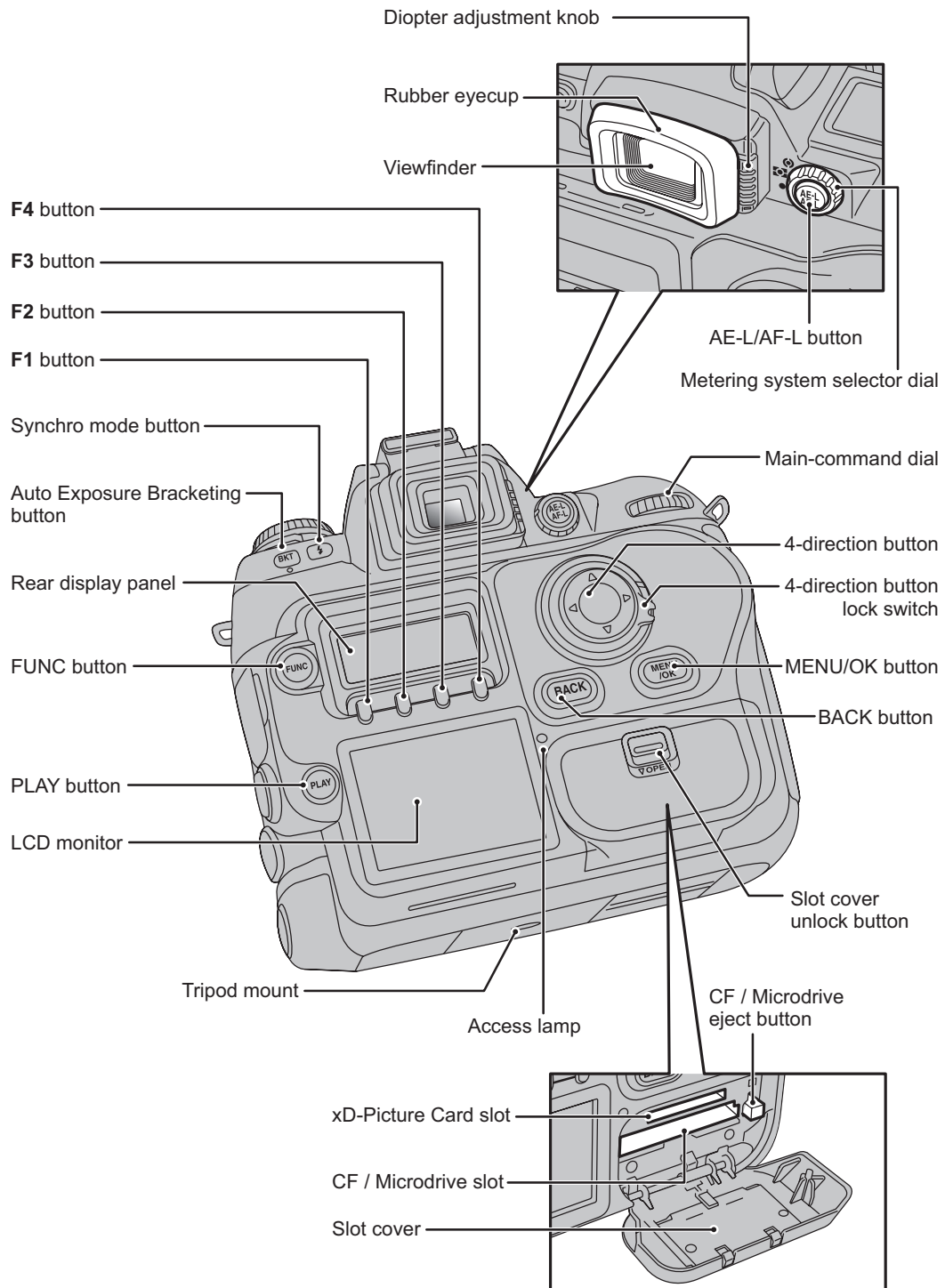
For CCD-RAW files, “” is displayed as the resolution.

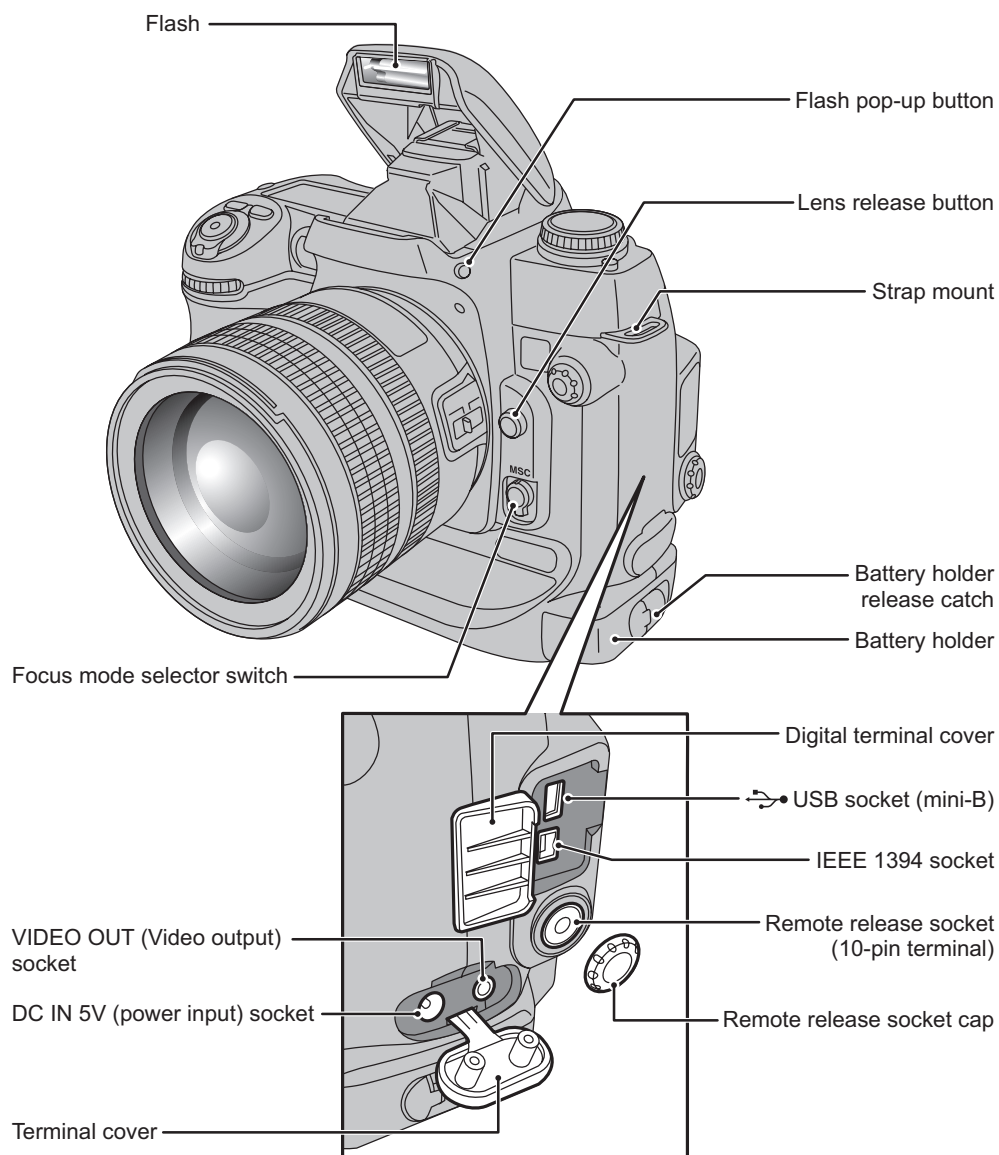
1-2. Explanation of Terms

| | |
|-------------------|---|
| Adobe RGB (1998) | <p>A color space introduced as the working color space for Adobe Photoshop 5.0. AdobeRGB encompasses almost all the colors reproduced by CMYK printers and is intended primarily for printing applications. It was introduced as "SMPTE-240E" in the RGB settings in Adobe Photoshop 5.0 and as "Adobe RGB (1998)" in the profile settings from version 6.0 onwards.</p> |
| CCD-RAW | <p>This is the image data prior to signal processing (the reconstruction of the data read in from the CCD as an image). Because the signal processing is performed on the computer, high levels of control are possible.</p> <ul style="list-style-type: none">• To reconstruct images, FinePixViewer (on the enclosed CD-ROM) or the Hyper Utility (optional) must be installed on your computer. |
| Color space | <p>Refers to the range of colors, expressed as two-dimensional or three-dimensional numerical values, that can be reproduced by devices such as cameras, monitors and printers. The sRGB and AdobeRGB color spaces are each shown as an xy color chart (a coordinate color space in which colors are represented in two dimensions with no brightness value). The range of colors that can be expressed by a particular color space is indicated by a triangle imposed on the xy color chart. Colors become brighter as they approach the outer edge of the xy color chart. This color representation method is capable of showing all the actual colors.</p> |
| Color Temperature | <p>Low-temperature light sources, such as a candle flame, are strongly red, while high-temperature light sources, such as a gas burner flame, are strongly blue. The color of the light for these temperatures is expressed as a color temperature (K = Kelvin). The light of the sun at midday in a completely clear sky is taken to be 5500K.</p> |
| EV: | <p>A number that denotes Exposure Value. The EV is determined by the brightness of the subject and sensitivity (speed) of the film or CCD. The number is larger for bright subjects and smaller for dark subjects. As the brightness of the subject changes, a digital camera maintains the amount of light hitting the CCD at a constant level by adjusting the aperture and shutter speed.</p> <p>When the amount of light striking the CCD doubles, the EV increases by 1. Likewise, when the light is halved, the EV decreases by 1.</p> |
| JPEG: | <p>Joint Photographic Experts Group</p> <p>A file format used for compressing and saving color images. The higher the compression rate, the greater the loss of quality in the decompressed (restored) image.</p> |
| White Balance: | <p>Whatever the kind of the light, the human eye adapts to it so that a white object still looks white. On the other hand, devices such as digital cameras see a white subject as white by first adjusting the color balance to suit the color of the ambient light around the subject. This adjustment is called matching the white balance.</p> |
| Exif Print: | <p>Exif Print Format is a newly revised digital camera file format that contains a variety of shooting information for optimal printing.</p> |

1-3. Names of External Components

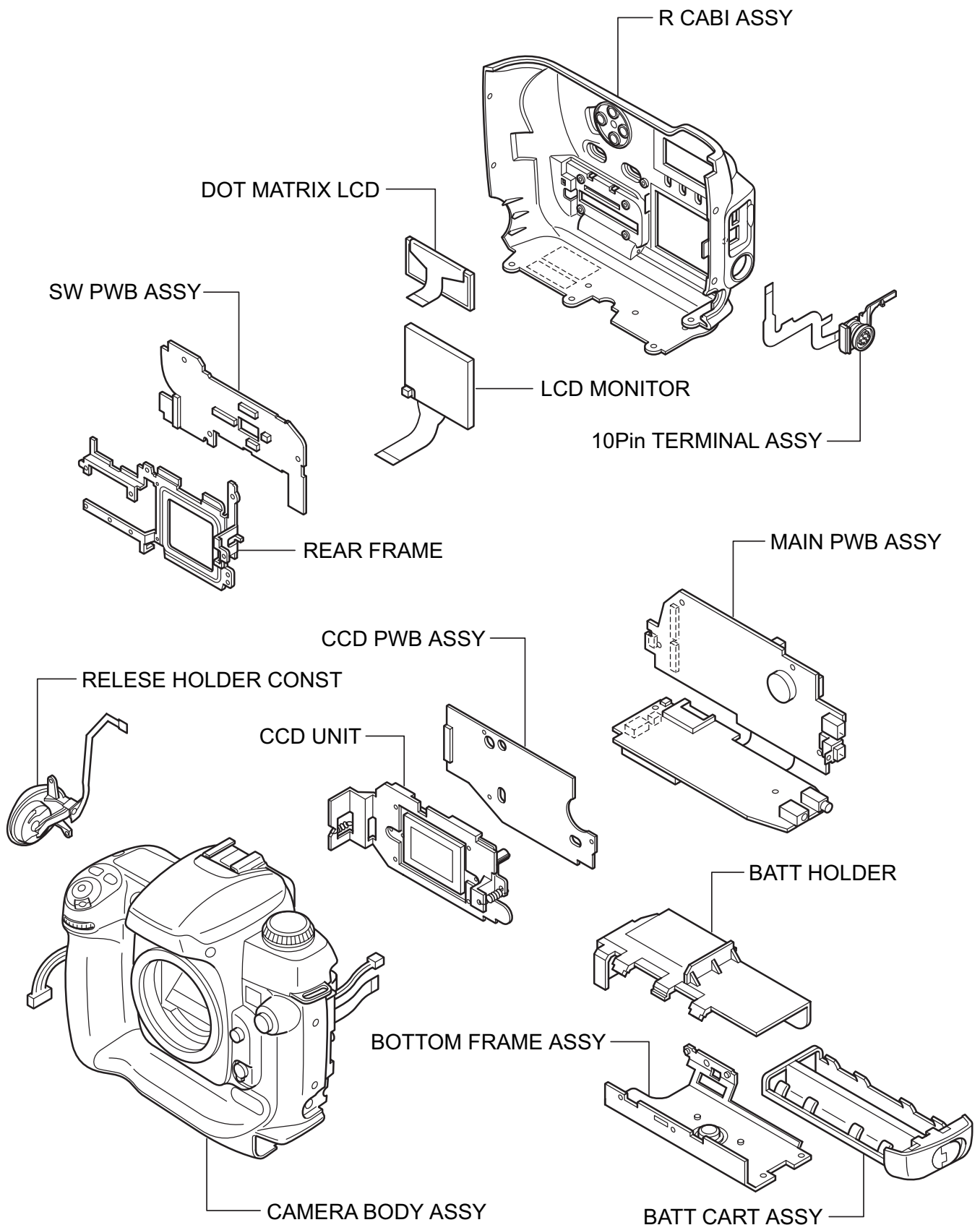






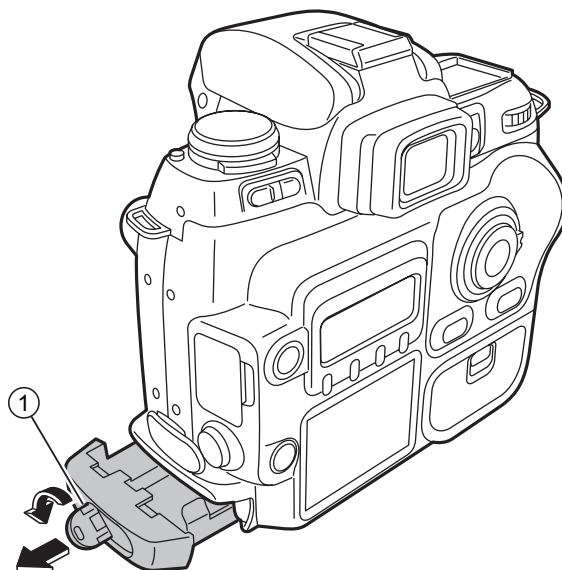
2. Disassembly

2-1. Names of internal Components



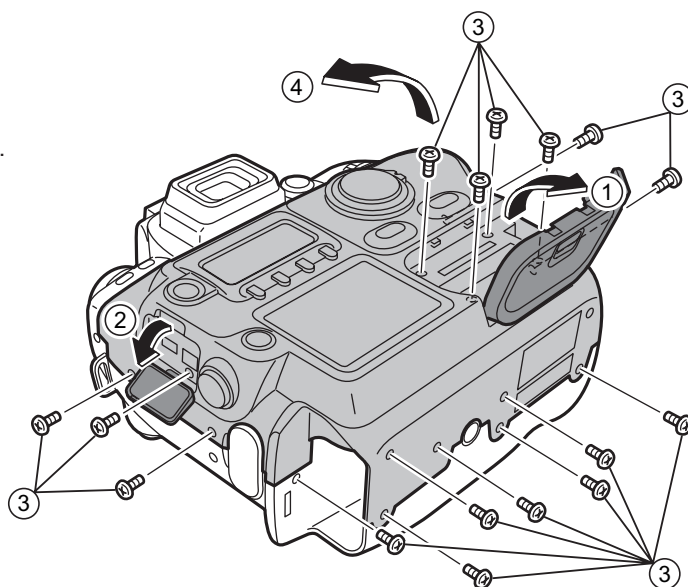
2-2. Removing the BATT CART ASSY

- (1) Unlock the battery holder by turning the lock lever and pull out the BATT CART ASSY.

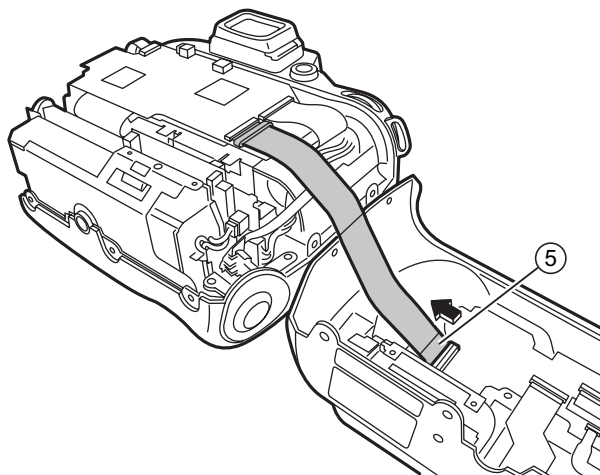


2-3. Removing the R CABI ASSY

- (1) Open the CARD COVER.
- (2) Open the DIGITAL TERMINAL COVER.
- (3) Remove the 16 screws (N-MS2M 1.7 x 3.0 BA).
- (4) Remove the R CABI ASSY in the direction of the arrow.

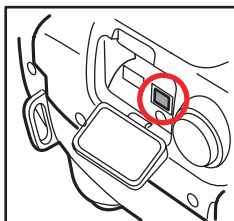


- (5) Remove the MAIN-SW FPC from the connector (SW PWB ASSY CN 102).



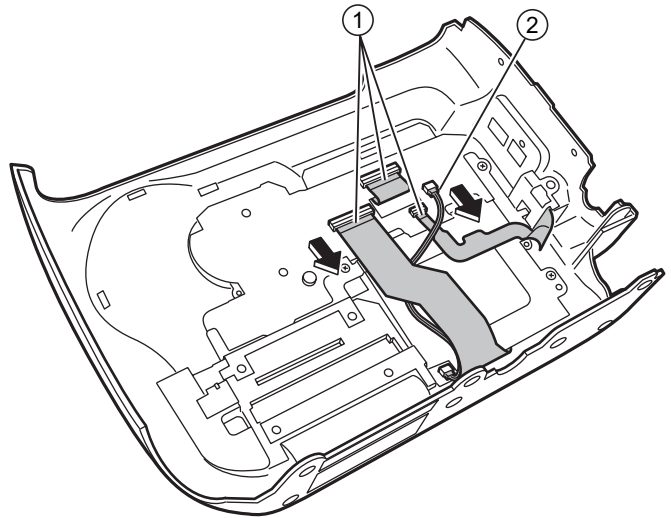
[Notes on assembling the R CABI ASSY]

1. Ensure that the FPC is not inserted on an angle and that it is fully inserted before locking.
2. Confirm the IEEE1394 JACK is correctly matched to the hole of R CABI ASSY.
3. Ensure that there are no gaps between the CAMERA BODY ASSY and R CABI ASSY after assembly.

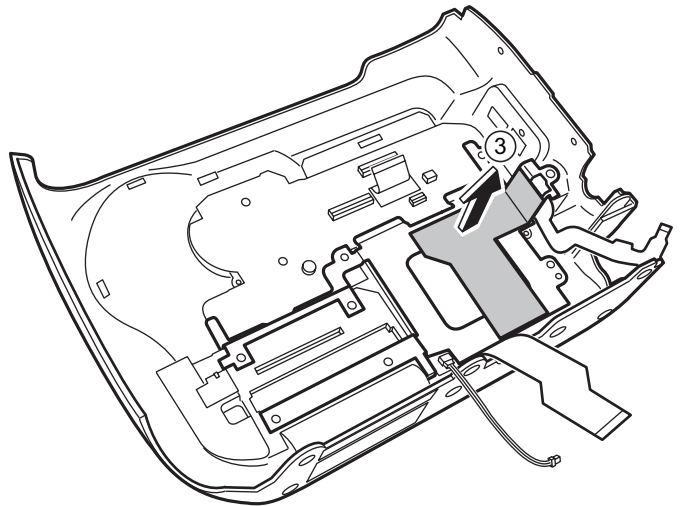


2-4. Removing the SW PWB ASSY

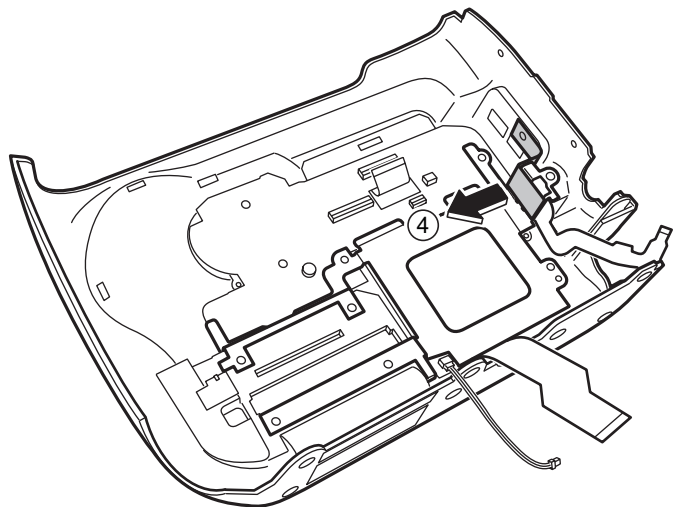
- (1) Remove the FPC at 3 points.
- (2) Remove the wire harness at 1 point.



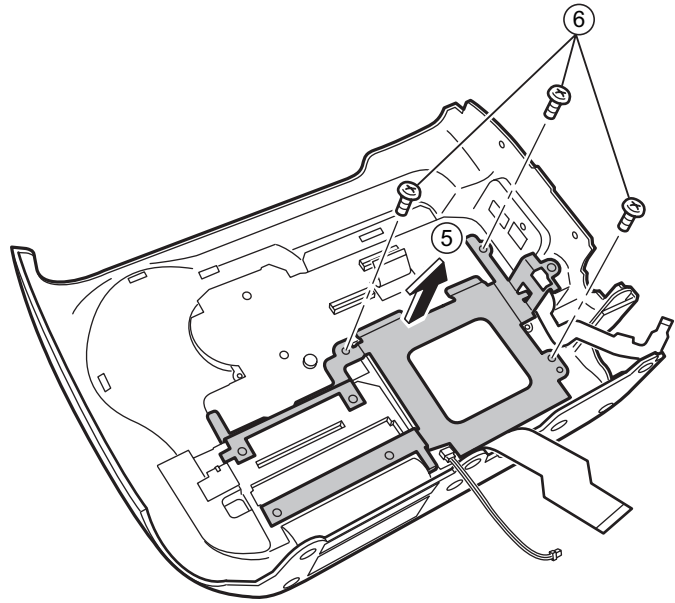
- (3) Remove the EMI SHEET 10 FPC in the direction of the arrow.



- (4) Remove the EMI SHEET 10 CNN in the direction of the arrow.



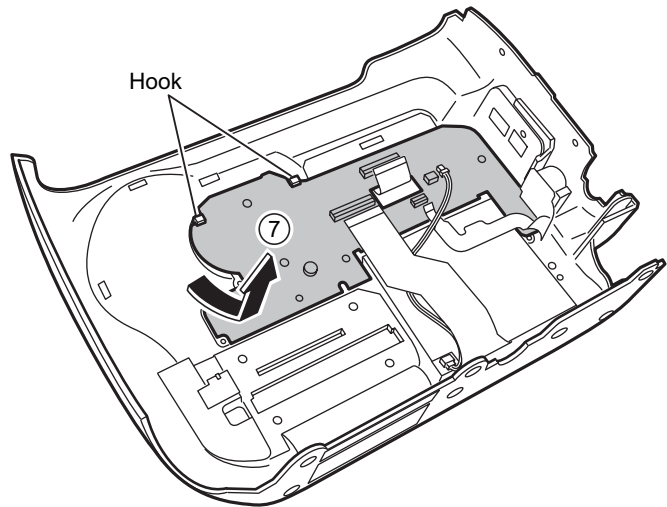
- (5) Remove the 3 screws (BT2M 1.7 x 4.0 B).
- (6) Remove the REAR FRAME in the direction of the arrow.



- (7) Remove the SW PWB ASSY in the direction of the arrow.

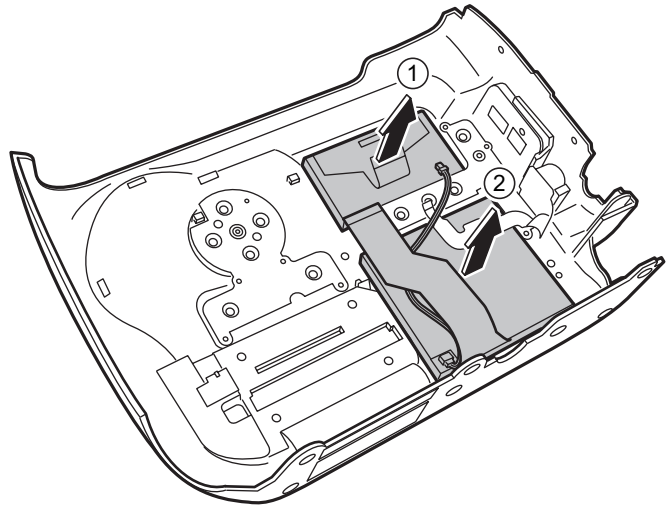
[Notes on assembling the SW PWB ASSY]

- 1. Check that the top edge of the SW PWB ASSY is engaged with the hook on the R CABI ASSY side.
- 2. Take care to avoid inserting the FPC on an angle and ensure that it is fully inserted before locking.
- 3. Ensure that there are no gaps between the CABI after assembly.



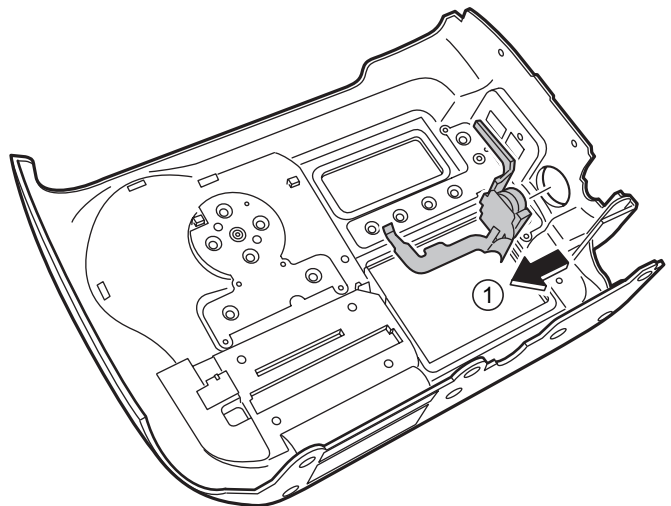
2-5. Removing the LCD

- (1) Remove the DOT MATRIX LCD in the direction of the arrow.
- (2) Remove the LCD MONITOR in the direction of the arrow.



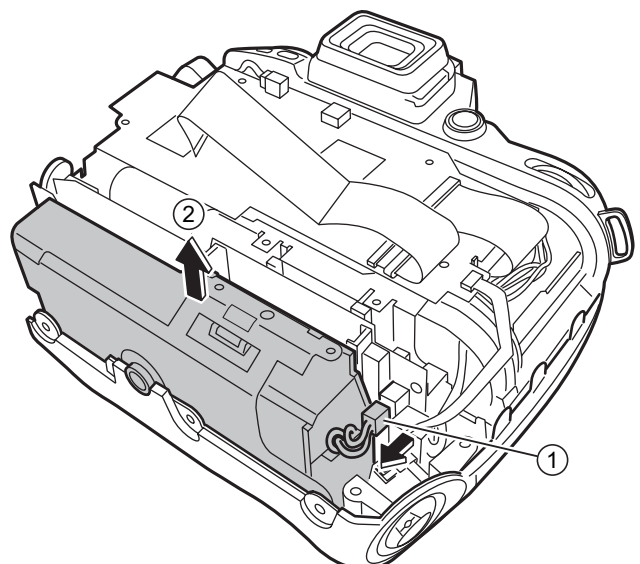
2-6. Removing the 10-pin TERMINAL ASSY

- (1) Remove the 10-pin TERMINAL ASSY in the direction of the arrow.



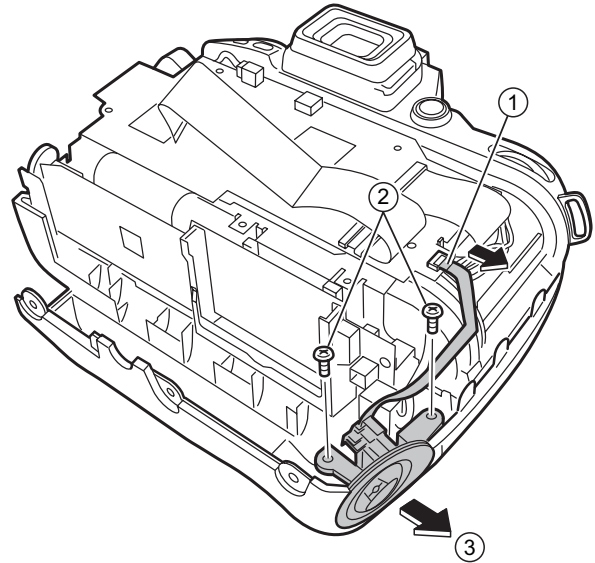
2-7. Removing the BATTERY HOLDER

- (1) Remove the wire harness from the connector (MAIN PWB ASSY CN 600).
- (2) Remove the BATTERY HOLDER in the direction of the arrow.

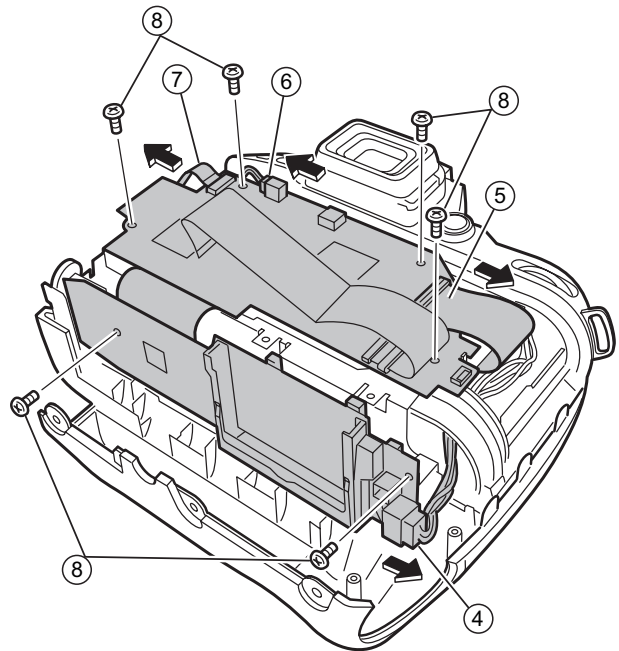


2-8. Removing the MAIN PWB ASSY

- (1) Remove the FPC from the connector (MAIN PWB ASSY CN 101).
- (2) Remove the 2 screws (BT2M 1.7 x 4.0 B).
- (3) Remove the RELEASE HOLDER CONST in the direction of the arrow.



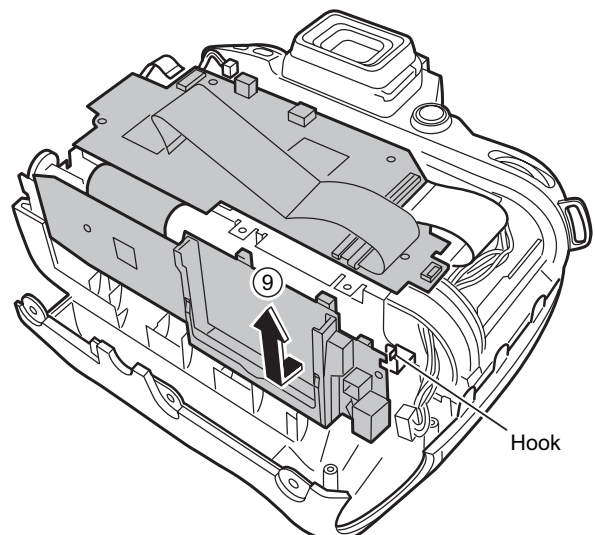
- (4) Remove the wire harness (CAMERA BODY) from the connector (MAIN PWB ASSY CN 700).
- (5) Remove the MAIN-CCD FPC from the connector (MAIN PWB ASSY CN 100).
- (6) Remove the wire harness (CAMERA BODY) from the connector (MAIN PWB ASSY CN 104).
- (7) Remove the FPC (CAMERA BODY) from the connector (MAIN PWB ASSY CN 103).
- (8) Remove the 6 screws (MS2M 1.7 x 3.0 N).



- (9) Remove the MAIN PWB ASSY in the direction of the arrow.

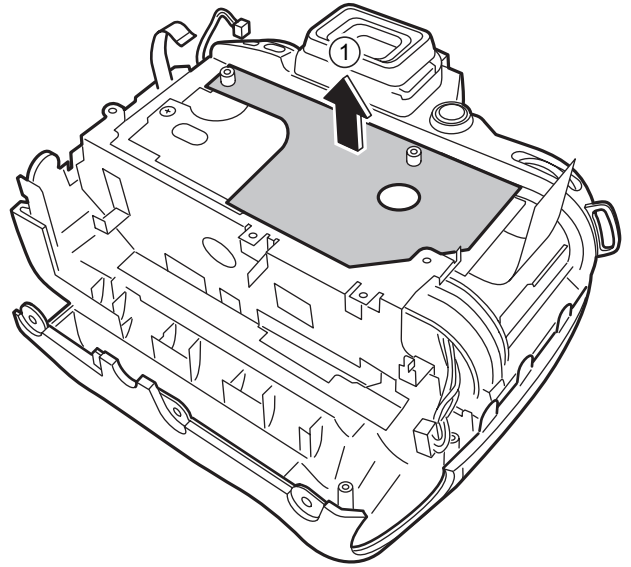
[Notes on assembling the MAIN PWB ASSY]

Check that the notch in the CARD SLOT side of the MAIN PWB ASSY is engaged with the hook on the CAMERA BODY.



2-9. Removing the CCD PWB ASSY and CCD UNIT

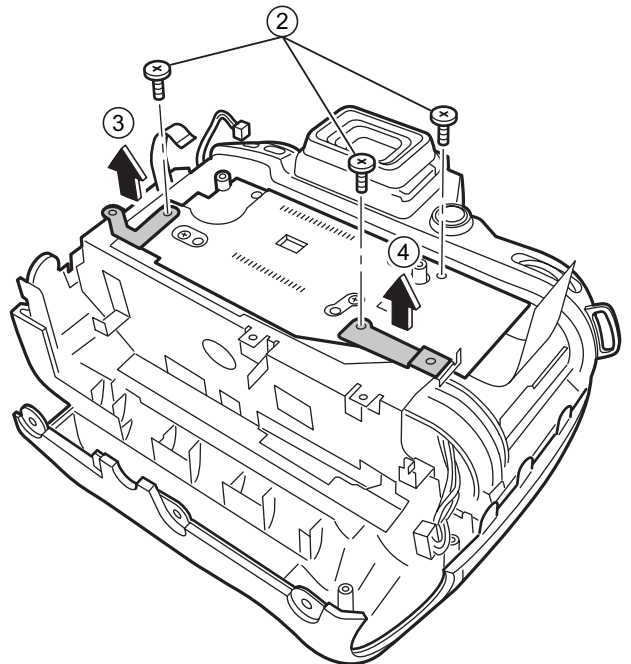
(1) Remove the SHIELD SHEET.



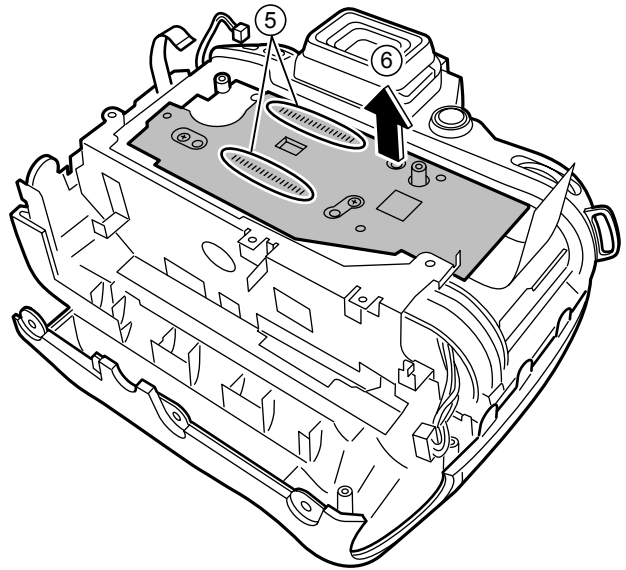
(2) Remove the 3 screws (CCD PWB SCREW).

(3) Remove the EMI SHEET L in the direction of the arrow.

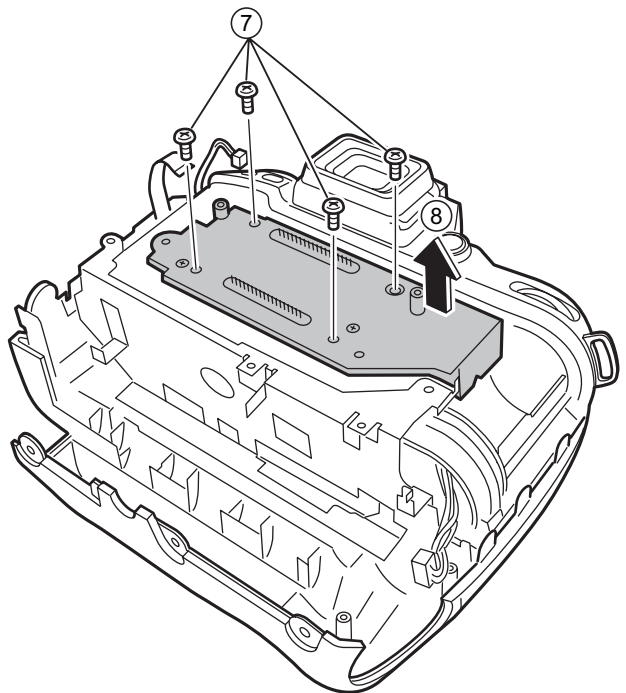
(4) Remove the EMI SHEET R in the direction of the arrow.



- (5) Remove the solder on the CCD PWB ASSY (36 locations).
- (6) Remove the CCD PWB ASSY in the direction of the arrow.



- (7) Remove the 4 screws (M 1.2 x 2.4 C).
- (8) Remove the CCD UNIT in the direction of the arrow.



2-10. How to dismantle the parts around the outer wrappings

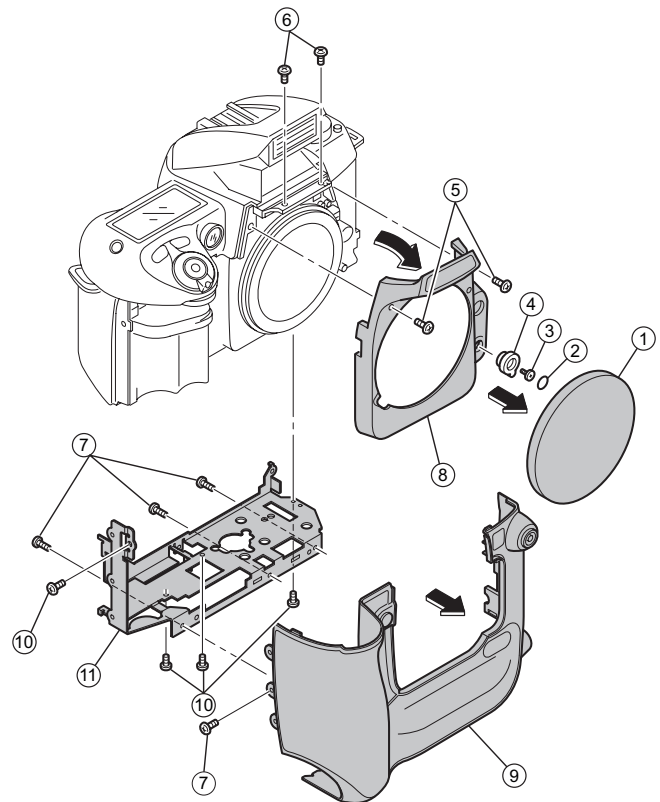
2-10-1. Removing TOP COVER UNIT

★ Revised: 1. Dec. 2004

Remove in the order indicated by circled numbers.

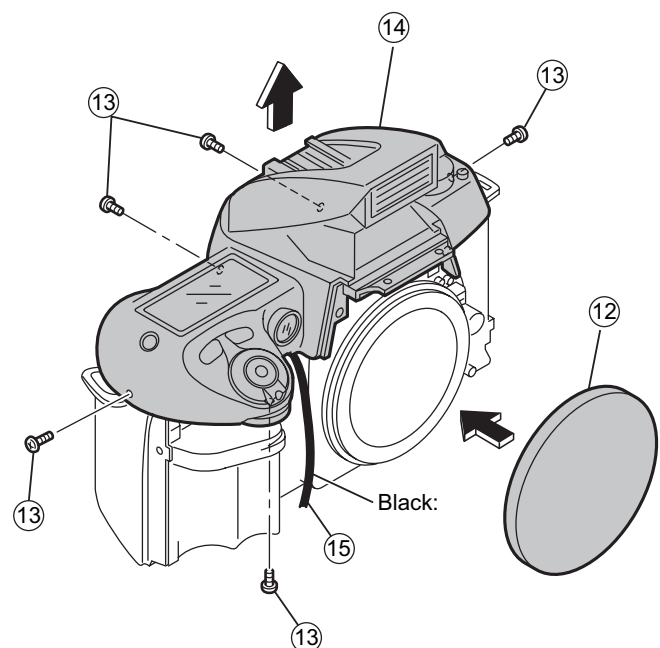
<Step 1>

- (1) Remove the lens cap.
- (2) Remove A/M COVER PLATE.
- (3) Remove one screw.
- (4) Remove A/M CHANGE LEVER.
- (5) Remove two screws.
- (6) Remove two screws.
- (7) Remove four screws.
- (8) Remove FRONT COVER BLACK in the direction of the arrow.
- (9) Remove FRONT CABINET UNIT in the direction of the arrow.
- (10) Remove four screws.
- (11) Remove the MAIN FRAME.



<Step 2>

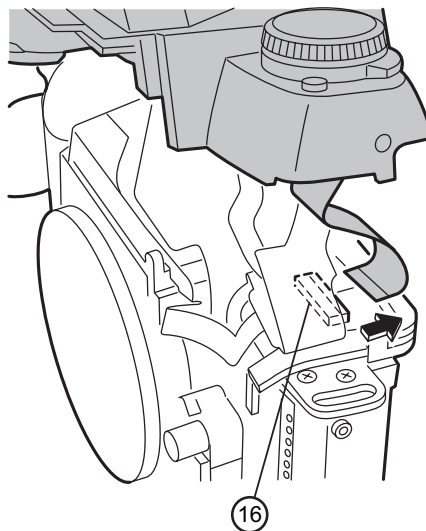
- (12) Do the lens cap.
- (13) Remove five screws.
- (14) Float TOP COVER UNIT in the direction of the arrow.
- (15) Remove one screw.



<Step 3>

- (16) Remove FPC from the TOP COVER side, and remove TOP COVER UNIT to the grip side.

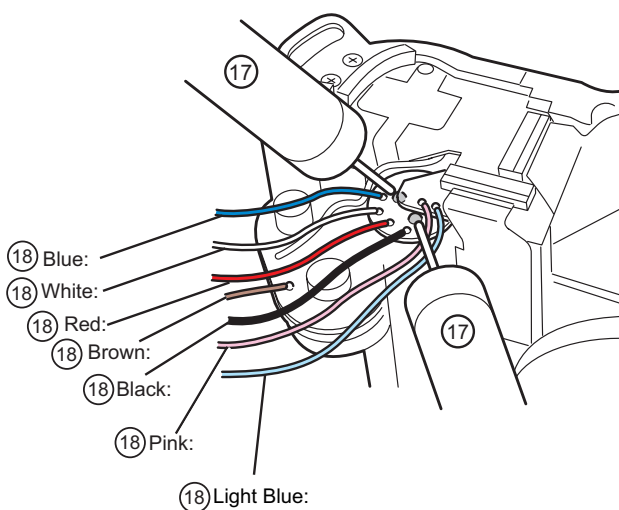
* As for the grip side, the harness is stopped with solder.



<Step 4> ⚠ ⚡

- (17) Peel off the insulation tape then discharge the MAIN CONDENSER before remove the wiring harnesses.

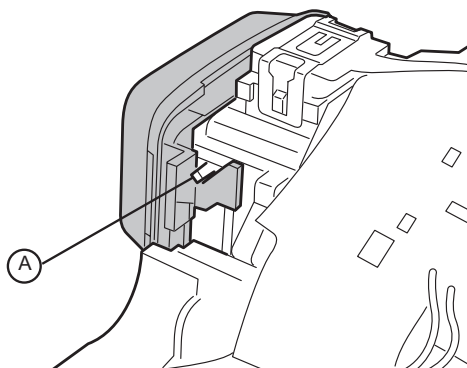
- (18) Remove six harness, and remove TOP COVER UNIT completely.



[Notes of assembly of TOP COVER UNIT]

Hang part A inner EYE PIECE BARREL UNIT.

And, build in TOP COVER UNIT.



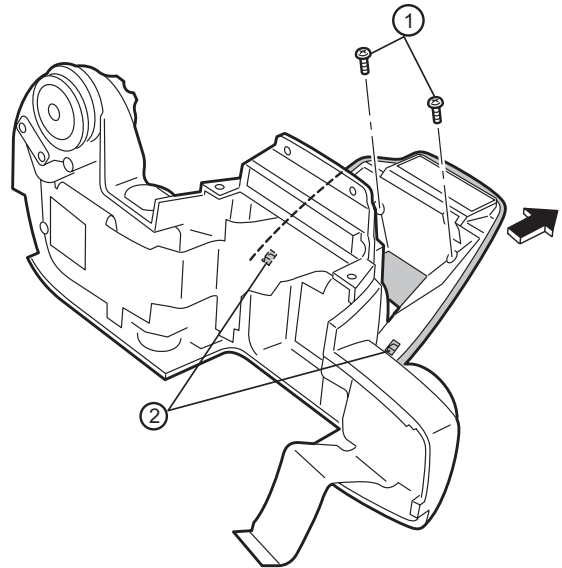
2-10-2. Removing SB LOWER CASE UNIT

★ Revised: 1. Dec. 2004

Remove in the order indicated by circled numbers.

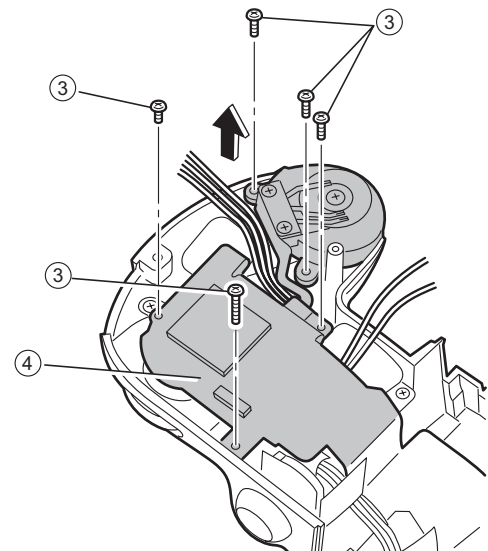
<Step 1>

- (1) Remove two screws.
- (2) Remove the hook in two places.



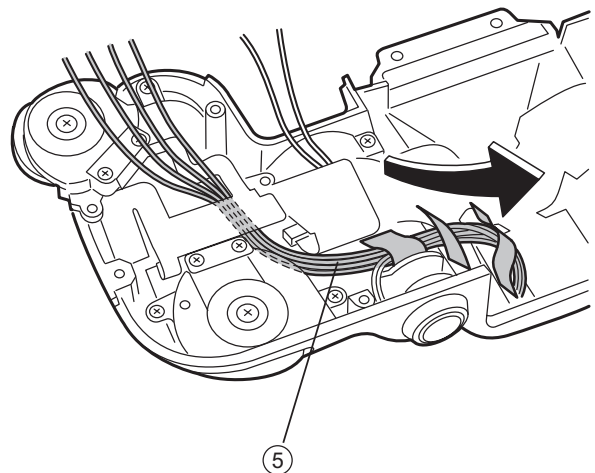
<Step 2>

- (3) Remove two screws.
- (4) Float TOP COVER FPC.



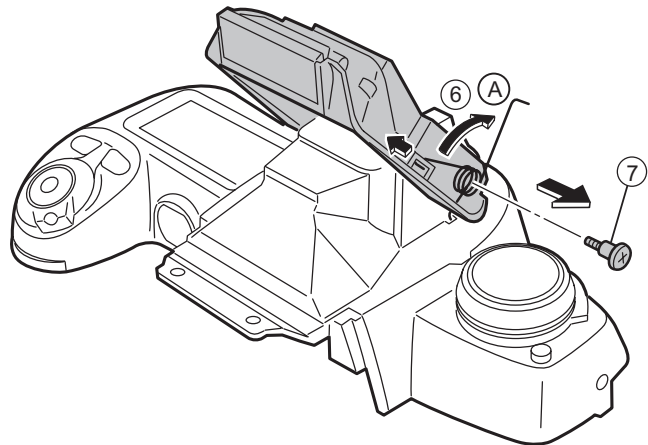
<Step 3>

- (5) Pull out the harness of the flash in the direction of the arrow after floating TOP COVER FPC.



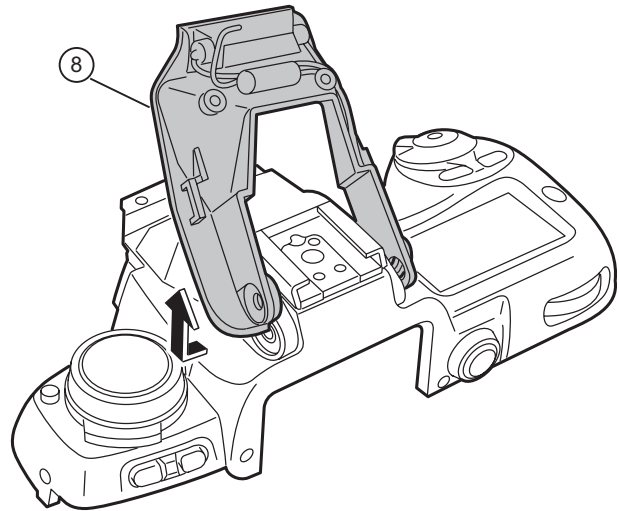
<Step 4>

- (6) Remove FLASH UP SPRING in the direction of A.
- (7) Remove one screws.



<Step 5>

- (8) Remove SB LOWER CASE UNIT in the direction of the arrow.



3. Schematic

3-1. Cautions

<Caution when replacing chip (leadless) parts>

- Do not re-use the removed parts, but use new parts. Be careful that the negative side of the tantalum capacitors are susceptible to heat.
- Voltage indications are omitted for capacitors other than chemical and tantalum capacitors with a dielectric strength of 50 V or less. All units are μF (μ shows pF).
- Chip resistors without indication are 1/10 W.
- $\text{K}\Omega = 1000\Omega$, $\text{M}\Omega = 1000\text{K}\Omega$
- Variable resistors and semi-variable resistor are abbreviated the specification of B characteristic.

3-2. Basic block name and function explanation

| Part name | Block name | Function |
|---------------|--------------------------|---|
| CCD UNIT | CCD BLOCK | CCD output (IC900) |
| CCD PWB ASSY | CCD BLOCK | CCD driver (IC901, 902), Analog to digital conversion of CCD output (IC906) |
| MAIN PWB ASSY | PROCESS BLOCK | Video signal processing, System control, SW detection management (IC104), SDRAM (IC101, 102, 103, 106), FLASH ROM (IC112) |
| | DCDC BLOCK | Power supply management (IC600) |
| | PWON BLOCK | POWER ON control (IC204, 205) |
| | PARTNER-CHIP BLOCK | Video signal processing assistance (IC1100) |
| | IEEE1394 BLOCK | IEEE1394 communication (IC304) |
| | USB2.0 BLOCK | USB2.0 communication (IC400) |
| | CARD BLOCK | xD card slot (CN800), CF TypeII slot (CN801) |
| | DCDC BLOCK (CAMERA BODY) | Power supply to CAMERA BODY (IC707) |
| SW PWB ASSY | LCD BLOCK | LCD control (IC500) |
| | SW BLOCK | Operation SW |

3-3. Description of the Main Block Functions

3-3-1. Overview of the new technology

A number of technological innovations have been used on this model. These innovations are described below.

(1) Large-format (15.5 x 23.0 mm) "Super CCD Honeycom SR11" featuring a new structural design

- Ultra-high image quality with a maximum recorded image size of 4256 x 2848 pixels (12.1 megapixels) provided by the "Honeycom Signal Processing System" and a resolution of 12.34 effective megapixels (high-sensitivity S pixels: 6.17 million; R pixels designed to increase dynamic range: 6.17 million).
- The "Super CCD Honeycom SR11" is a newly designed CCD that increases the dynamic range to roughly 4 times that of the previous FinePix S2Pro and provides rich and detailed tonal gradations. It provides superb image quality featuring high sensitivity, a broad dynamic range and a high S-N ratio.
- According to their needs, users can select either "D-Range: Wide" to take full advantage of the extensive dynamic range or "D-Range: Standard", which uses only the S-pixel signals to form the image and is ideal for continuous or high-speed shooting.
- When "D-Range: Wide" is selected, the photographer can then choose "AUTO" mode, in which the camera automatically sets the optimum dynamic range for the scene being shot, or set the dynamic range to "WIDE 1" or "WIDE 2" when the shot is taken to achieve a particular effect.
- Sensitivity settings equivalent to ISO 100-1600 are available, allowing shots to be taken in wide variety of situations both in the studio and outdoors.

(2) IEEE1394 and USB 2.0 interfaces allow high-speed transfer of image data to a PC. Also provided is a photography function that transfers photographed images directly from the camera to a PC via the IEEE1394 interface. (Requires the optional Hyper Utility HS-V2 version 3.0 software.)

- (3) In addition to sRGB, support is provided for the Adobe RGB (1998) color space, which is used as the standard color space in the graphic design and printing fields.
 - The inclusion of an additional partner chip with the UCS2 for image processing yields improved color space reproduction and lower levels of noise.
- (4) Image visibility is also improved through the use of a 2.0-inch low-temperature polysilicon TFT color LCD monitor featuring a resolution of 235,000 pixels and 100% coverage.
- (5) The use of a dedicated microchip for powering up means that media information is recorded even while the camera is turned off, reducing the time between the camera being turned on being ready to shoot.
- (6) The previous FinePix S2Pro needed 2 power supplies (2 CR123 button cells and 4 AA batteries), but the reduced power consumption levels on the FinePix S3Pro allow it to run on a single power supply (4 AA batteries).
- (7) Modifications to the base body allow improved viewfinder magnification, the adoption of D-TTL flash exposure control and an X-sync speed of 1/180.
- (8) A Firmware Update function has been included to allow for future functionality upgrades and support for special models.

3-3-2. Block function descriptions

(1) Imaging circuit (CCD BLOCK) (CAM BLOCK)

The analog video signals output from the new APS-size CCD Honeycom SR11 (high-sensitivity S pixels: 6.17 million; R pixels designed to increase dynamic range: 6.17 million) are processed using false-color correction (CDS), optimized spacing (CDS), amplification (AGC) and signal mixing (CDS) in a single CSPIC chip (IC906; abbreviated as ACS), before being converted (A-D) to 12-bit digital signals. The CSP-IC also incorporates the "TG/SSG" function, previously provided as a separate IC, onto one chip. The converted digital signals are then sent to the signal processing IC (abbreviated as UCS2; IC104; CSP).

(2) Image processor (PROCESS BLOCK) (Input data from the CCD)

The 12-bit digital image data (the section corresponding to 1H) generated by the imaging unit (CCD-CAM BLOCK) is sent to the signal processing IC (abbreviated as UCS2; IC104), where buffer processing is performed in the IC's internal buffer to convert the signals to 32-bit (16-bit x 2) data (CCD-RAW data). The converted 32-bit data (CCD-RAW data) is stored in the 16MB SDRAM (IC101 IC102 IC103 and IC106) via the I/O bus for the image signal processing IC. The image data for each frame (4256 pixels x 2848 lines) is temporarily stored in SDRAM. Also, the 32-bit image data input to the signal processing IC (abbreviated as UCS2; IC104) is used for additions performed by the AUTO computing unit and then sent to the CAM BLOCK ACS (IC906) so that the optimal AE, AWB and AF values are obtained. (Recording onto the xD Pictuer Card/Microdrive) The image data stored in the SDRAM (IC101 IC102 IC103 and IC106) is sent one line at a time to the signal processor IC (IC104; UCS2; CSP) via the I/O bus in the signal processor IC. In the signal processor, the data is unpacked and the following processes are called: 16 bit -> 10 bit conversion; preprocessing such as digital clamping, gamma correction, and 10-bit -> 8-bit conversion for the R, G and B channels; YC processing to convert the 8-bit RGB signals to Y:Cb:Cr=4:2:2, after which the Y, Cr and Cb 8-bit image data is returned to the internal buffer. In the internal buffer, the 8-bit Y, Cr and Cb signals are sorted into a data format that facilitates DCT compression before being recorded onto an xD Pictuer Card or Microdrive via the JPEG calculation unit and media controller. (Image playback from the xD Pictuer Card or Microdrive) The compressed image data on the xD Pictuer Card is sent to the signal processing IC (abbreviated as UCS2; IC104) as 8-bit image data and then sent to SDRAM (IC101 IC102 IC103 and IC106) via the media control unit, the DMA unit and the internal buffer control unit. The image data temporarily stored in SDRAM (IC101 IC102 IC103 and IC106) is then returned to the signal processor IC (abbreviated as UCS2; IC104) and sent to the signal processor unit via the media controller and JPEG calculation unit. The signal processor unit performs postprocessing in which the 8-bit Y:Cr:Cb image signals are converted to 8-bit R, G and B signals. At the same time, the character display signals are superimposed and sent to the LCD BLOCK. The imaging system adjustment data is stored in F_ROM (IC314). The 8-bit brightness and color-difference signals processed by the signal processing IC (UCS2; IC104) are D-A converted in the image signal processing IC encoder unit and the display character signals are superimposed, producing analog RGB signals. Video (a composite video signal) is also included at the same time in the B component of the RGB signal output. When the VIDEO terminal is inserted into the camera, a composite video signal is automatically output by the detector.

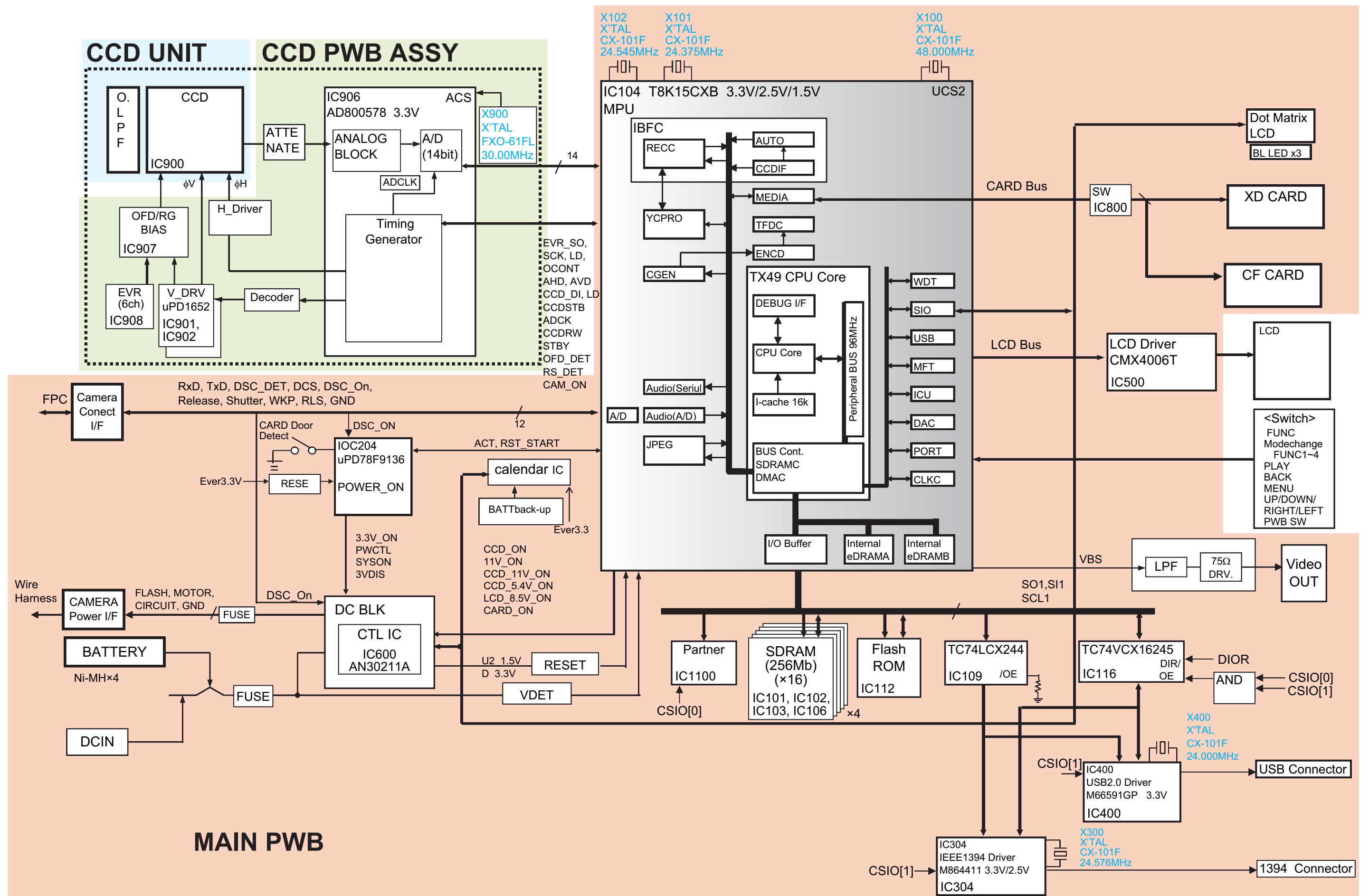
(3) LCD Controller (LCD BLOCK)

The RGB analog signals output from the image signal processing IC encoder block are sent to the LCD controller IC (IC500), where they are converted to digital RGB signals. The LCD controller IC also controls the LCD panel gradations at the same time.

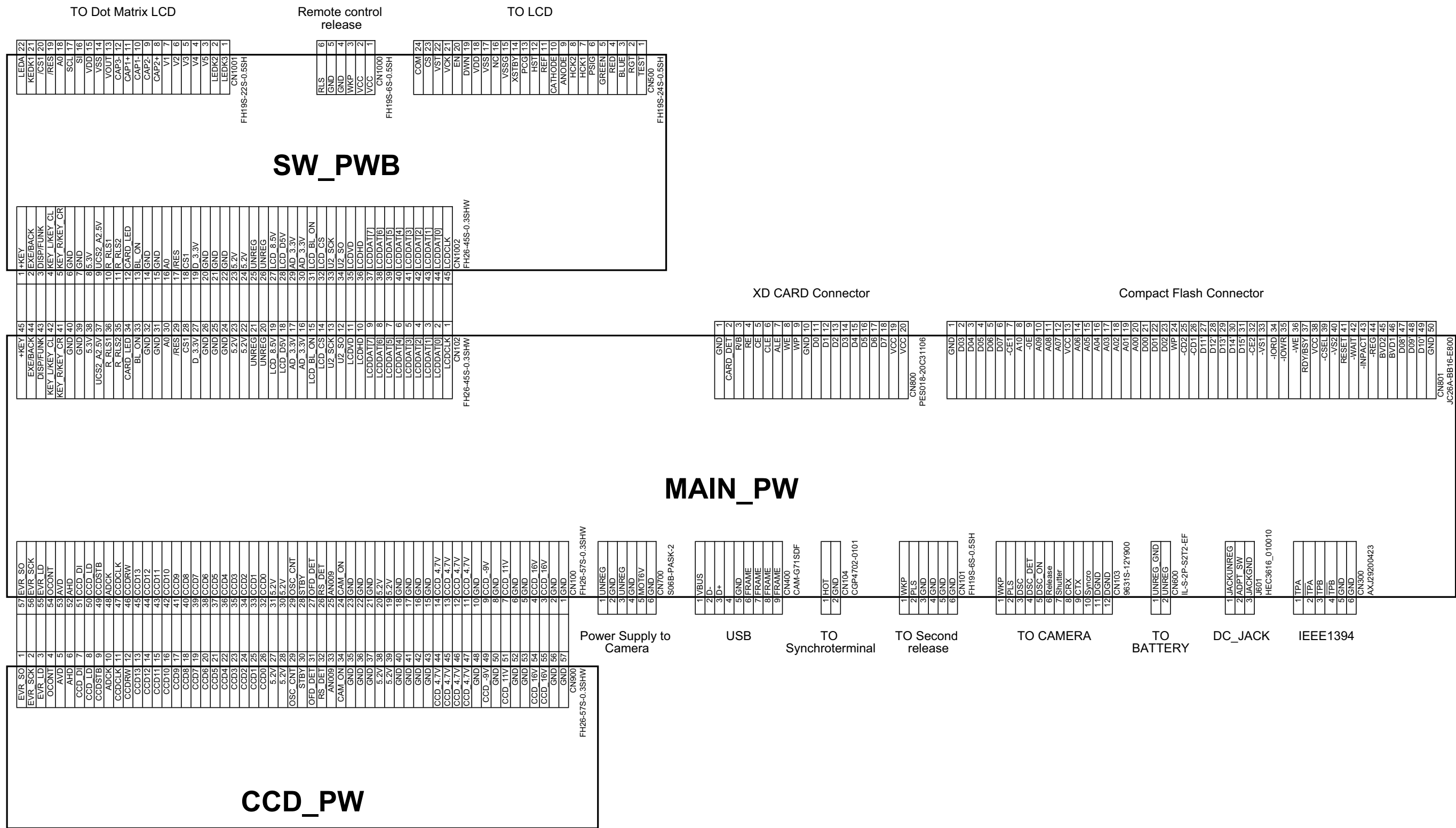
3-3-3. Description of the Power Supply Block Functions

The power supply circuit mounted on the MAIN PWB ASSY board generates a 3.3-volt (IEEE-IC IC1100, UCS2 IC401, ACS IC906, +16V/-9.0V (CCD power supply)), 7.5-volt (LCD backlight power supply) or 12-volt (LCD panel) supply.

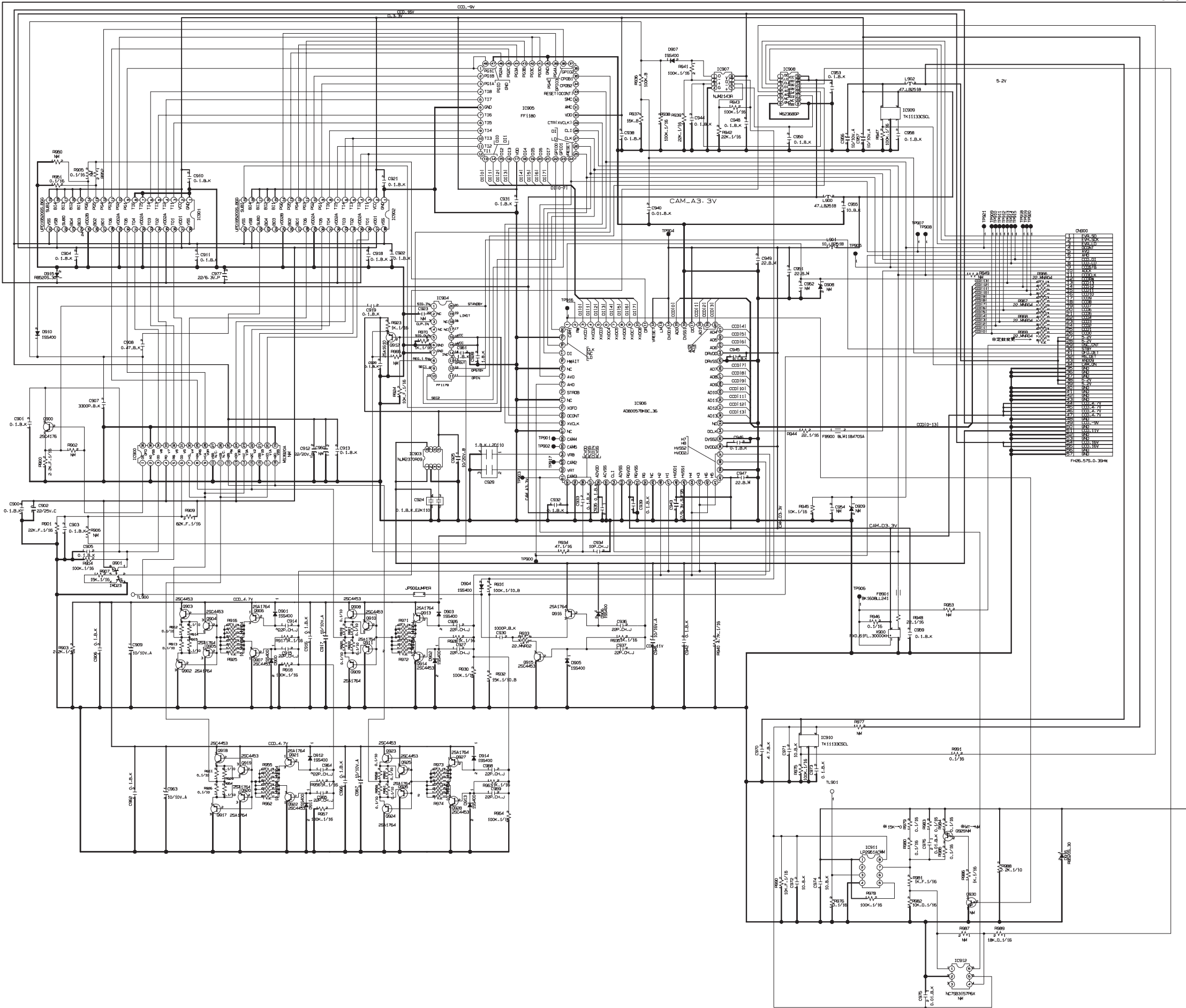
3-4. Block Diagram



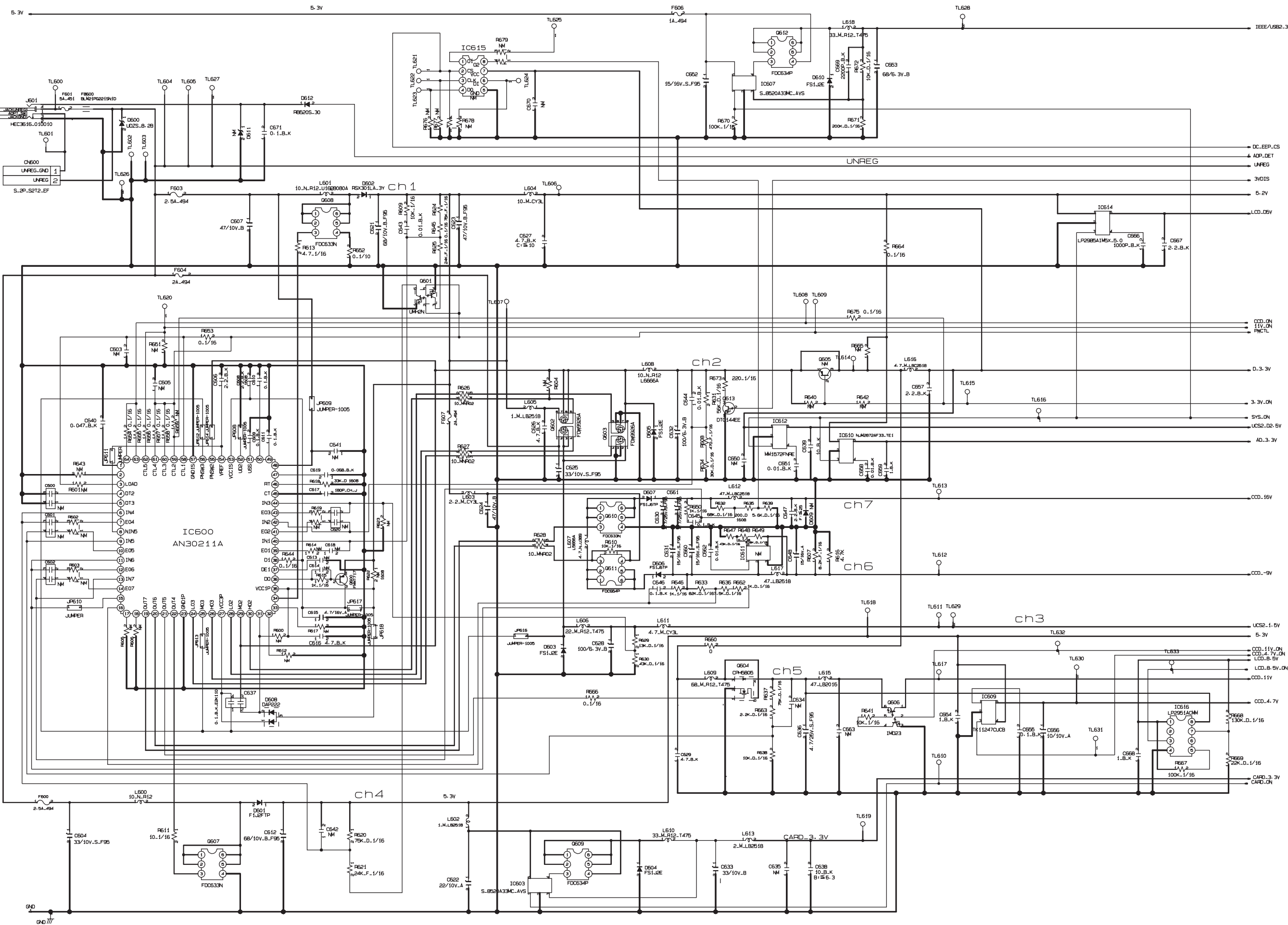
26



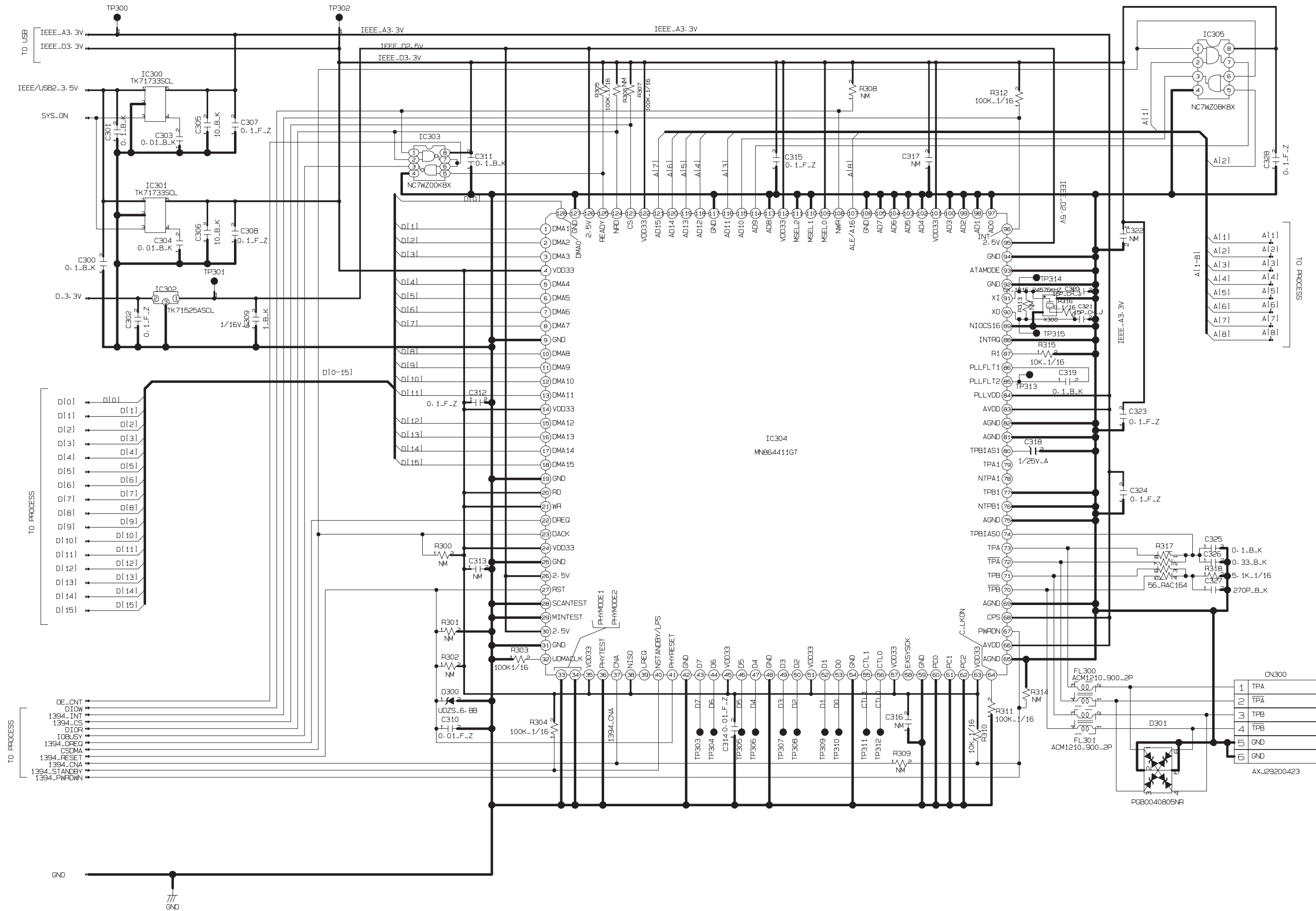
3-6. Circuit Diagrams
3-6-1. CCD BLOCK



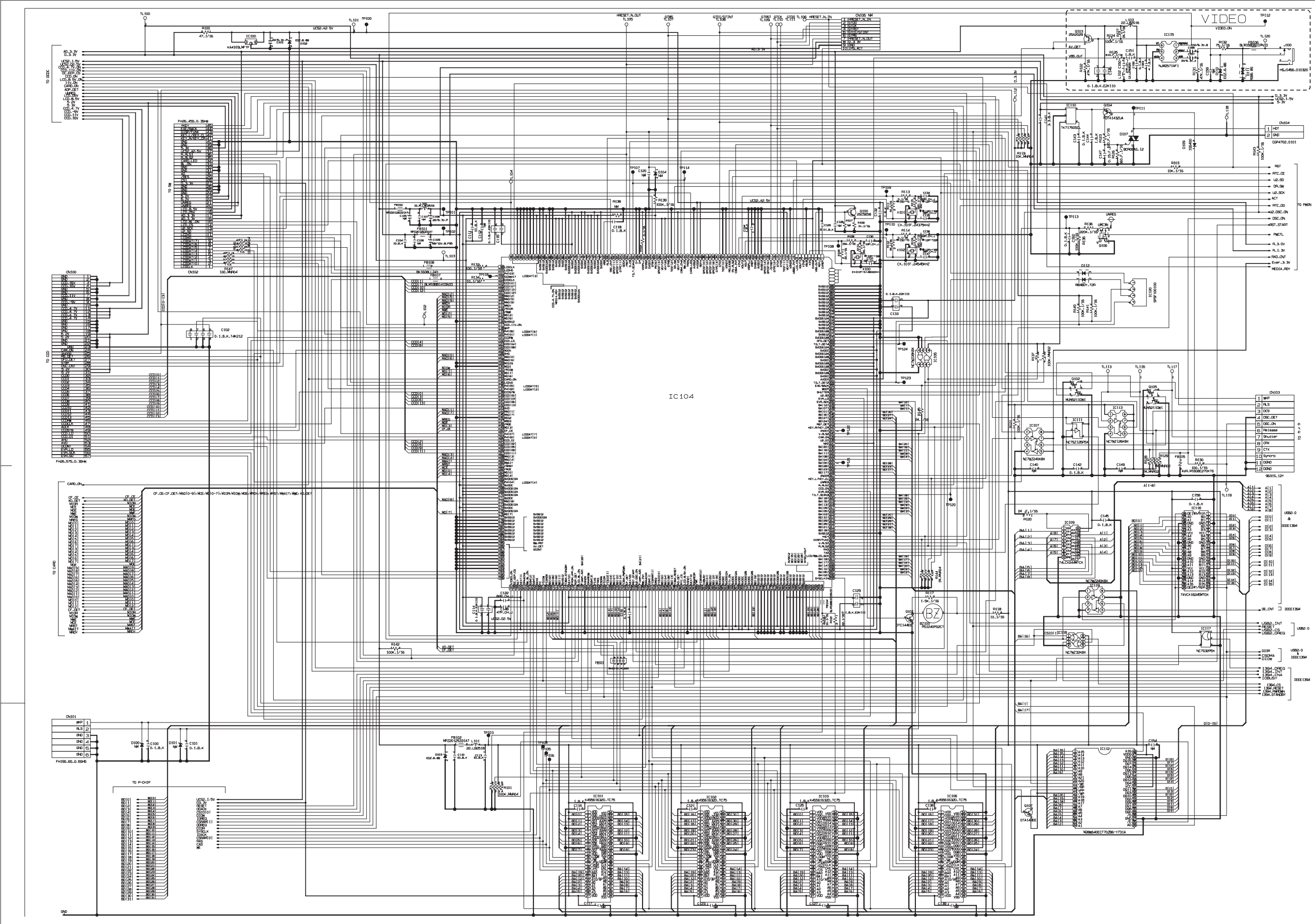
3-6-2. DCDC BLOCK



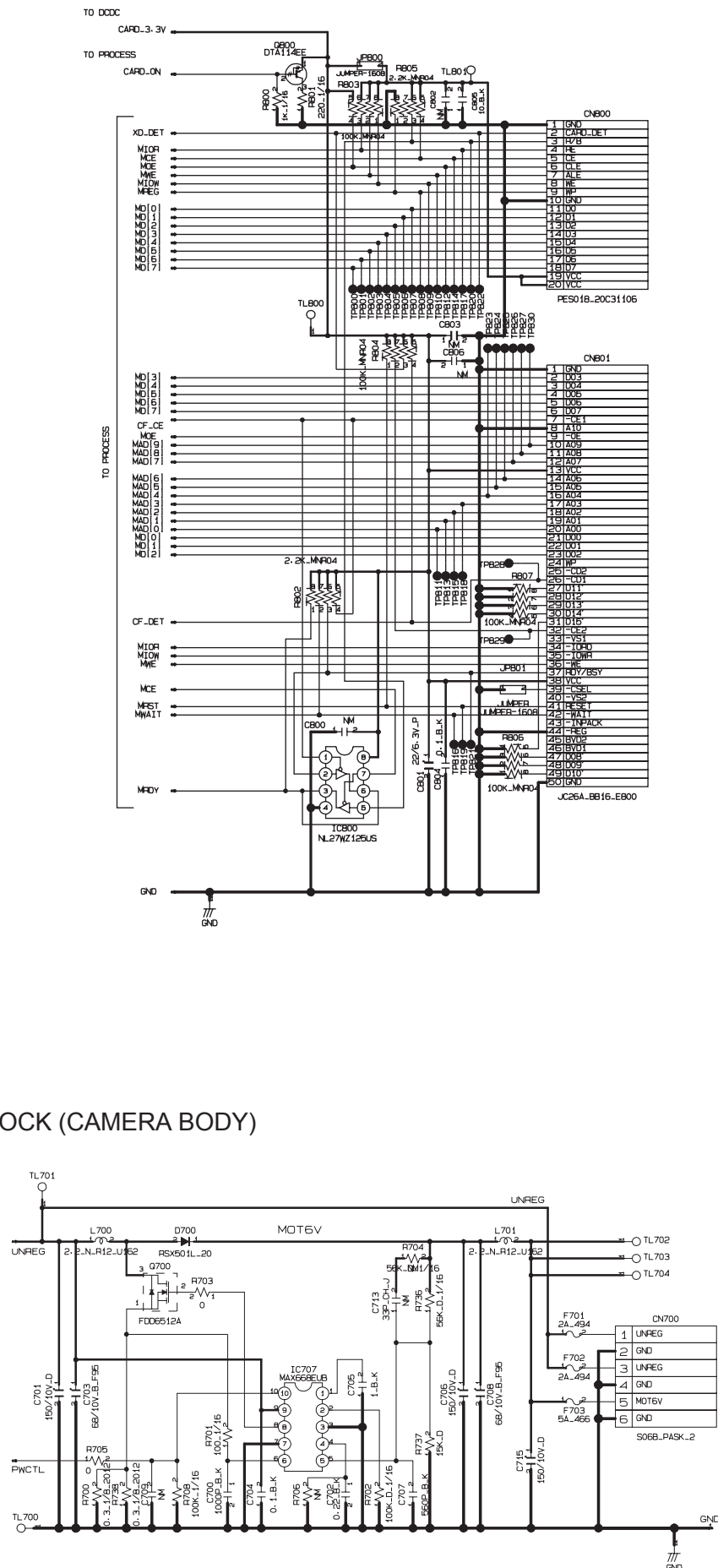
3-6-3. IEEE1394 BLOCK



3-6-4. PROCESS BLOCK

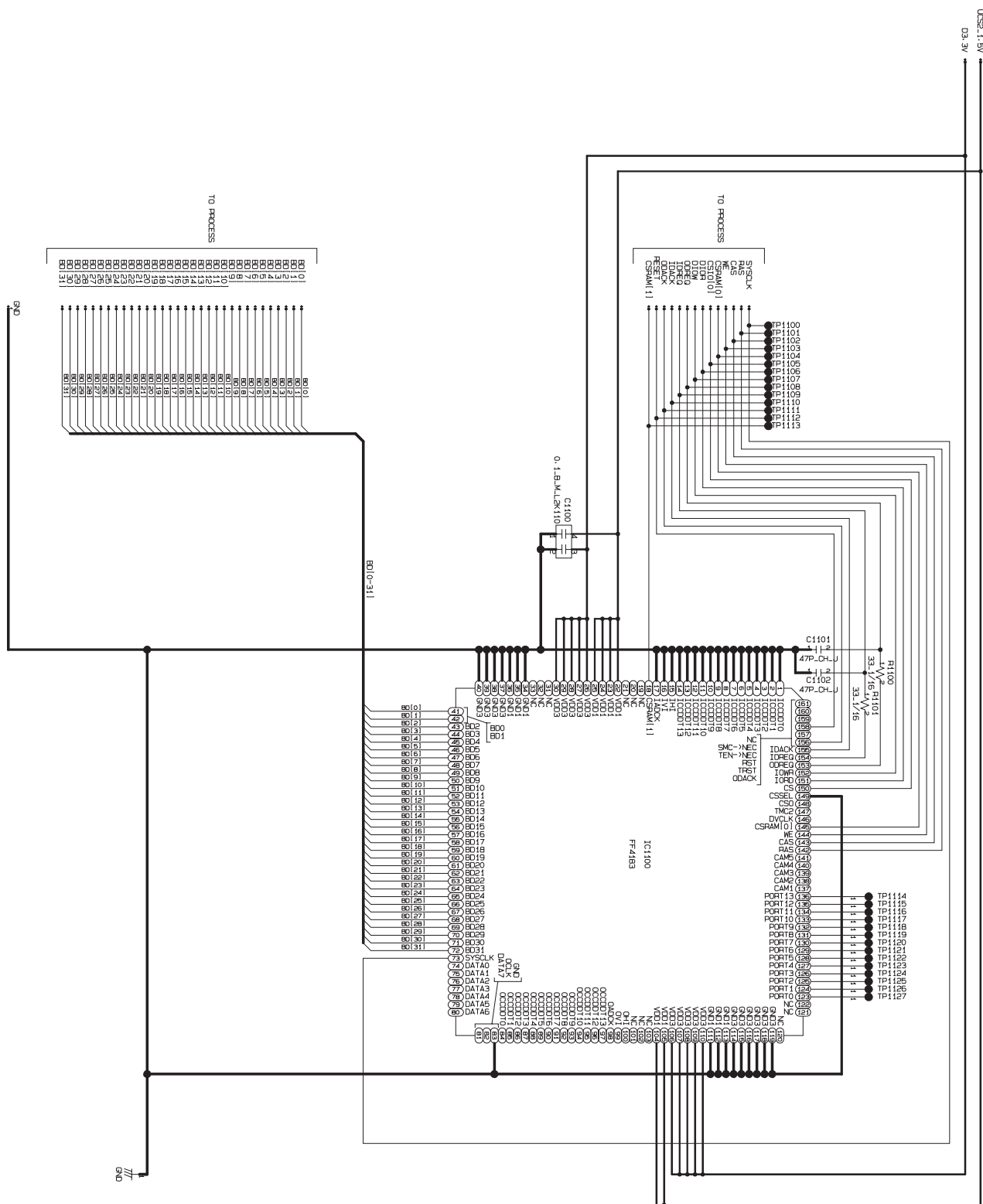


3-6-6. DCDC BLOCK (CAMERA BODY)

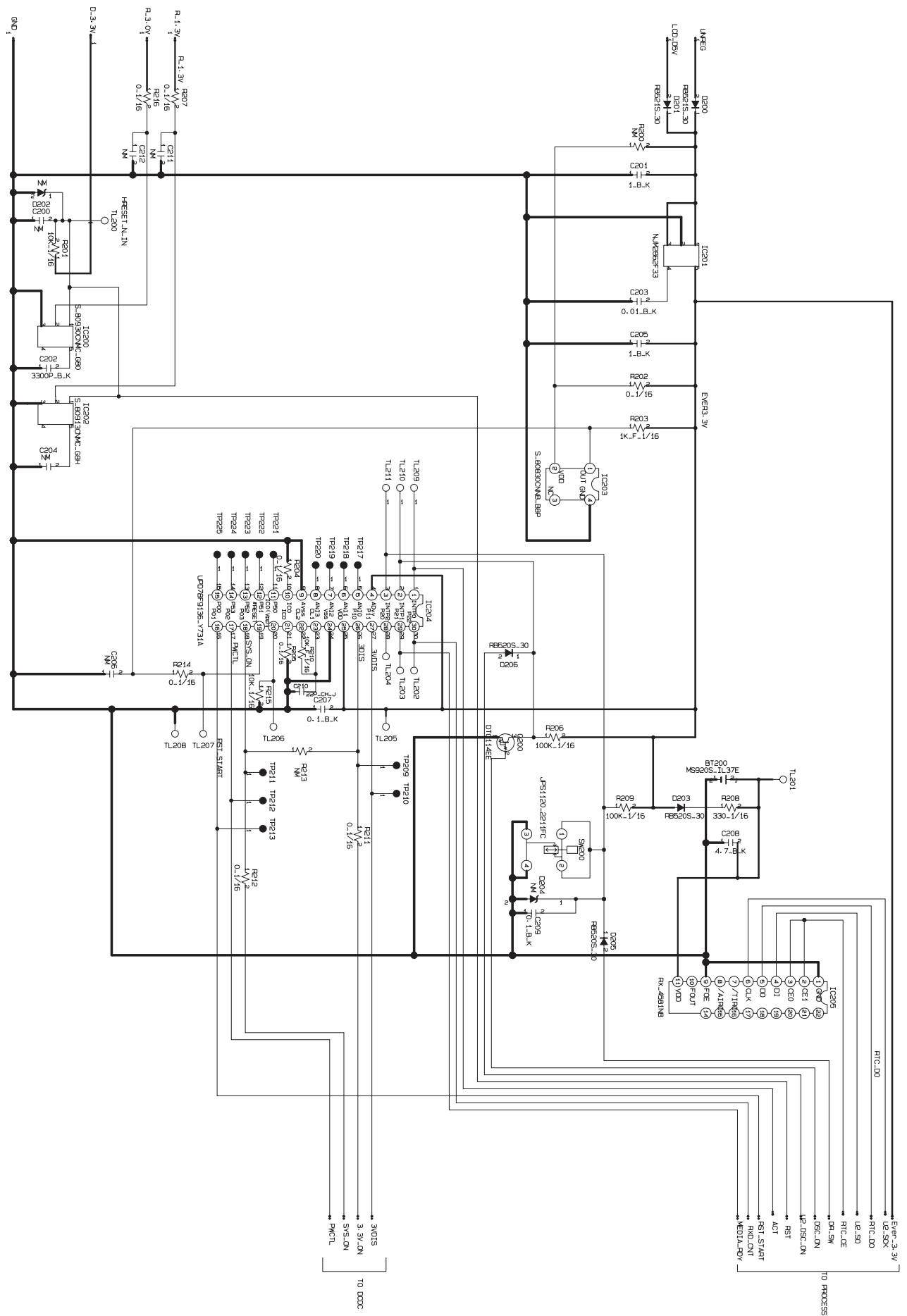


FinePix S3Pro Service Manual

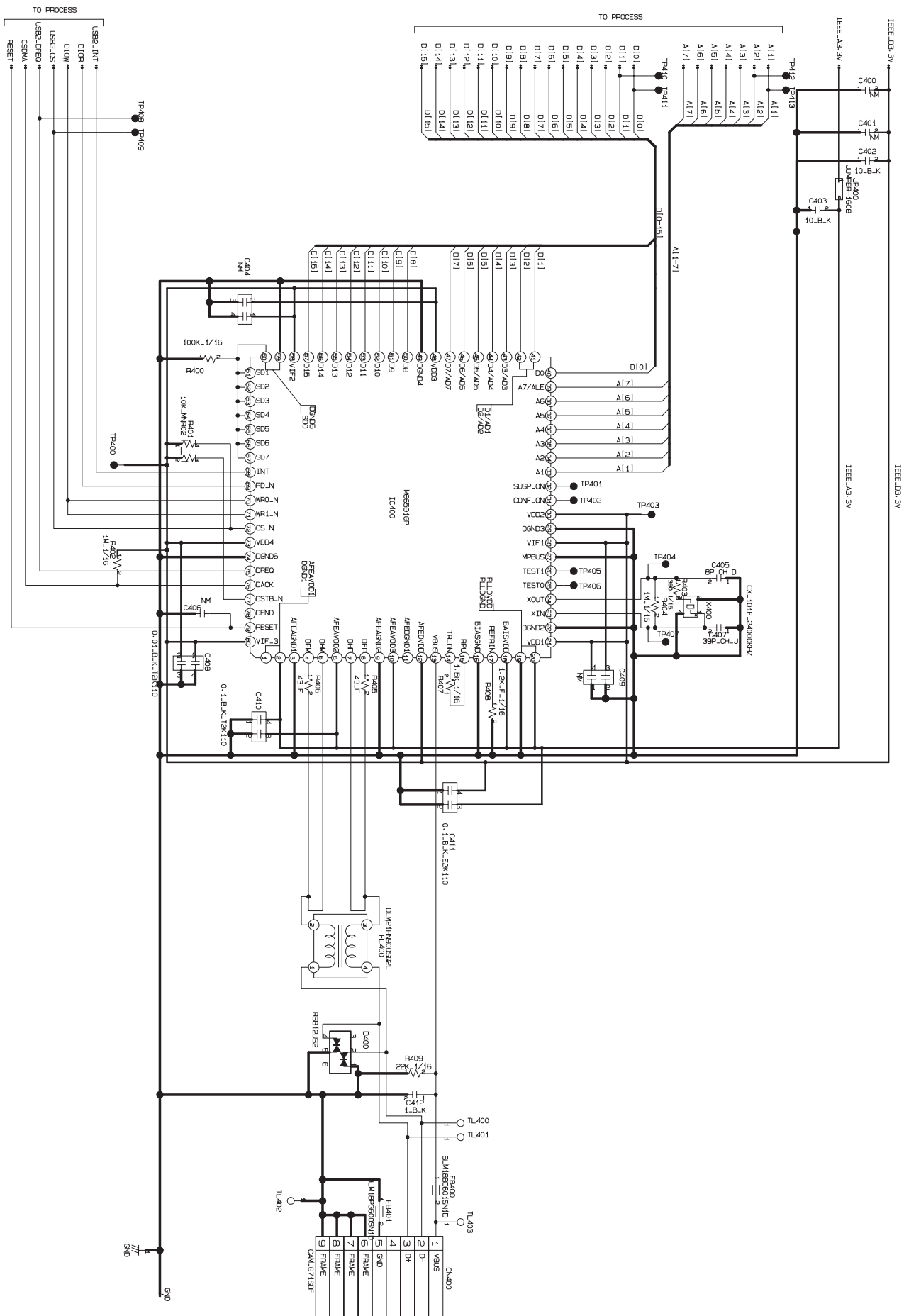
32



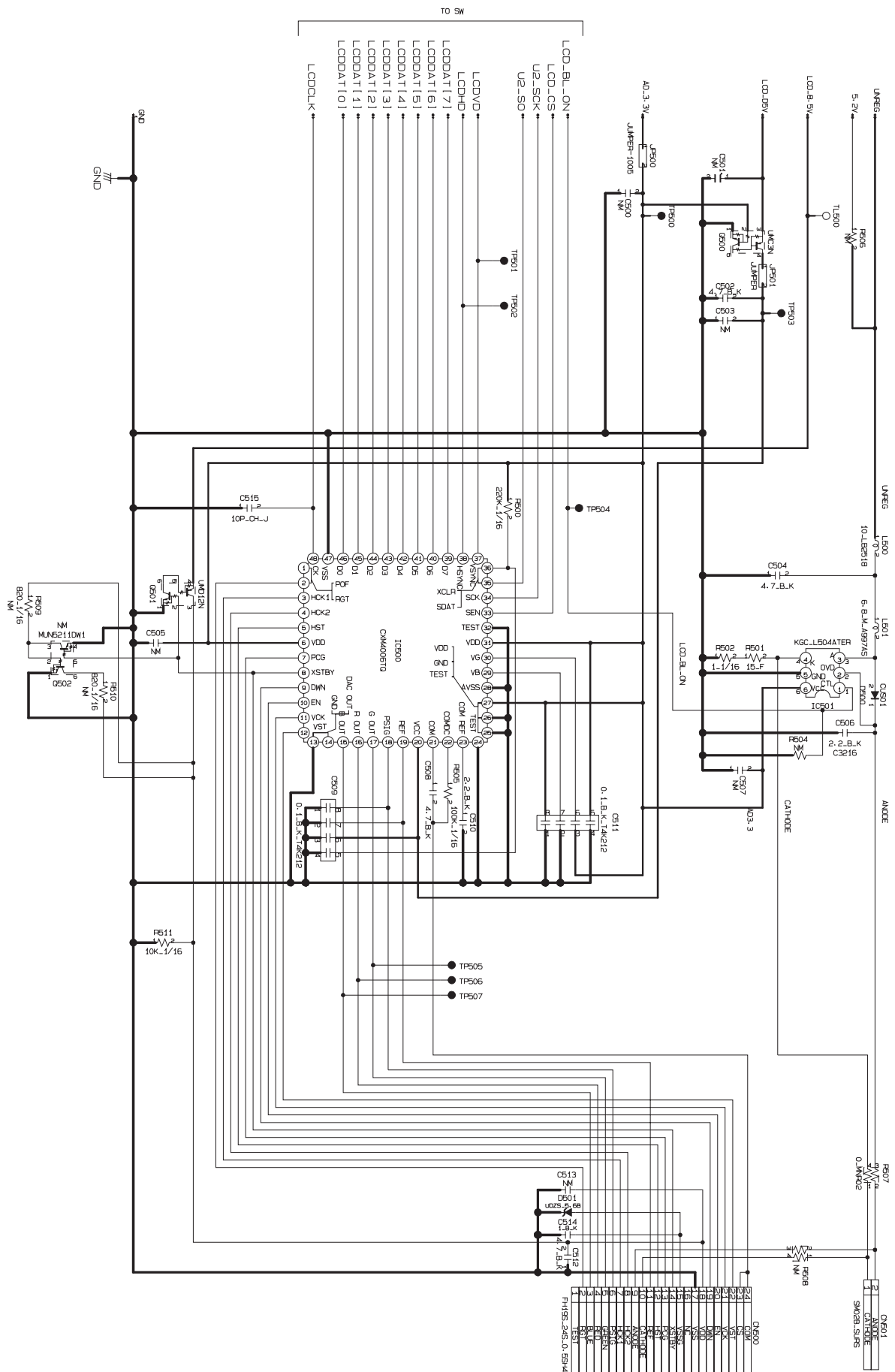
3-6-8. PWON BLOCK



3-6-9. USB2.0 BLOCK

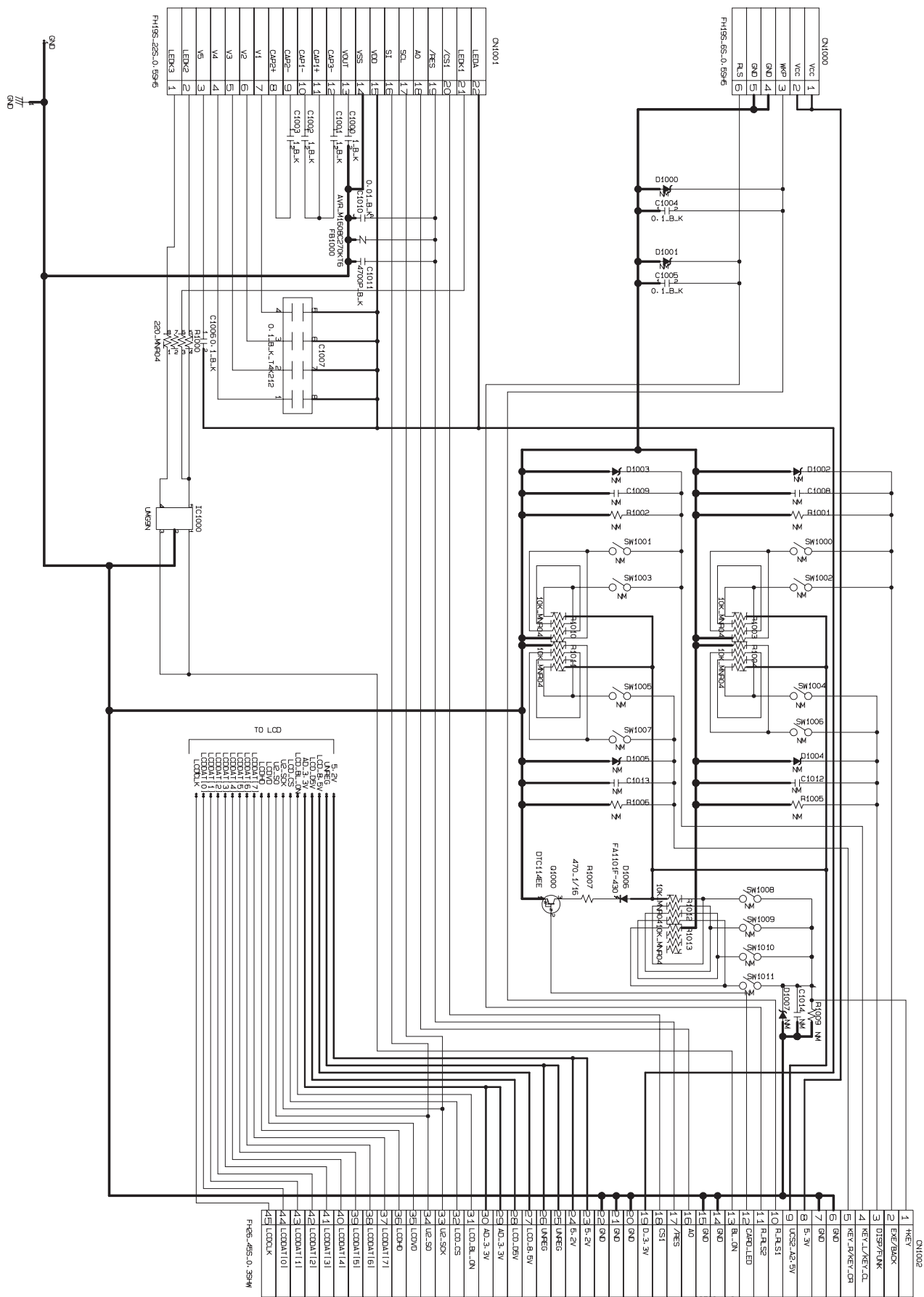


3-6-10. LCD BLOCK



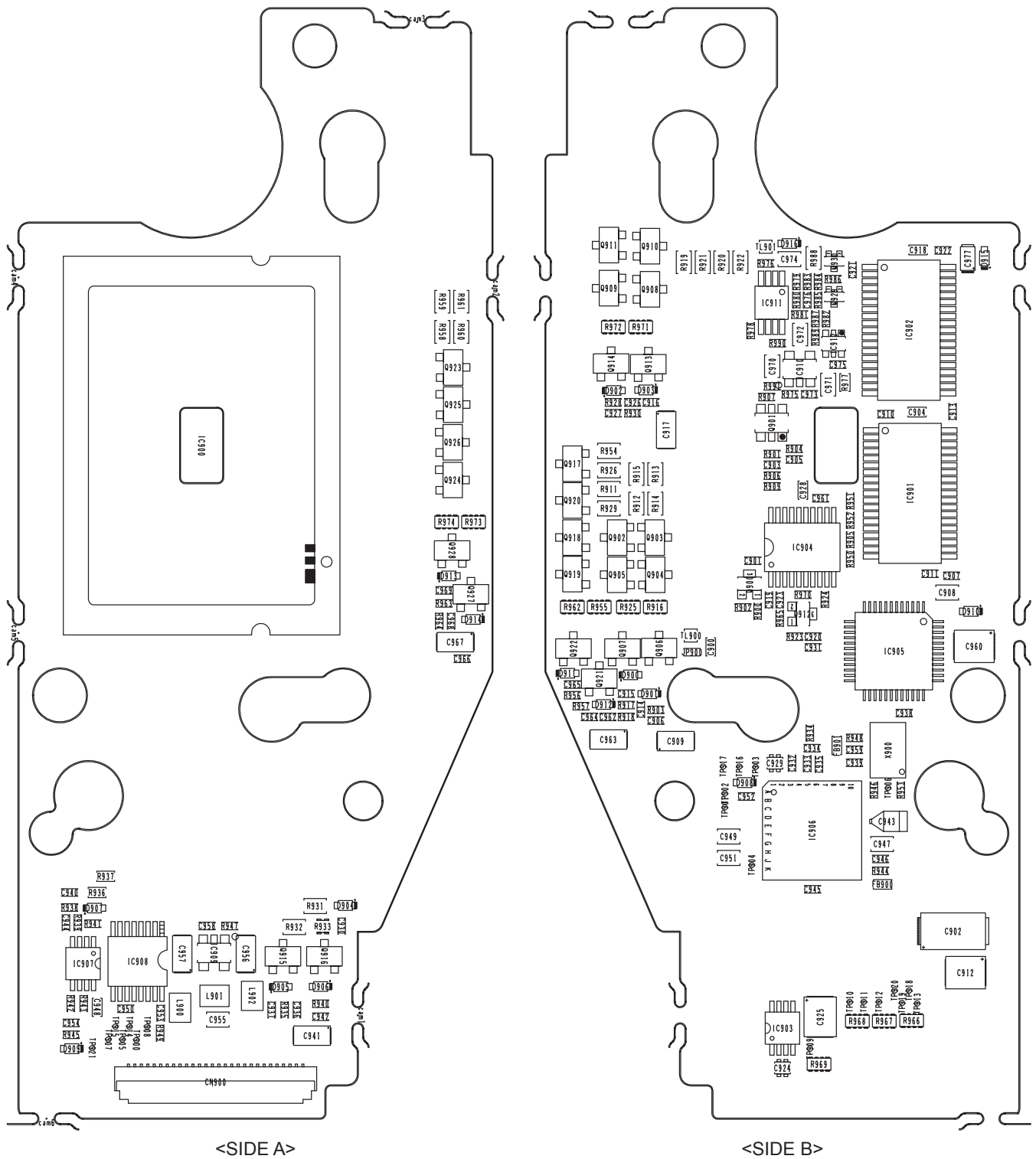
FinePix S3Pro Service Manual

36



3-7. Mounted Parts Diagrams

3-7-1. CCD PWB ASSY



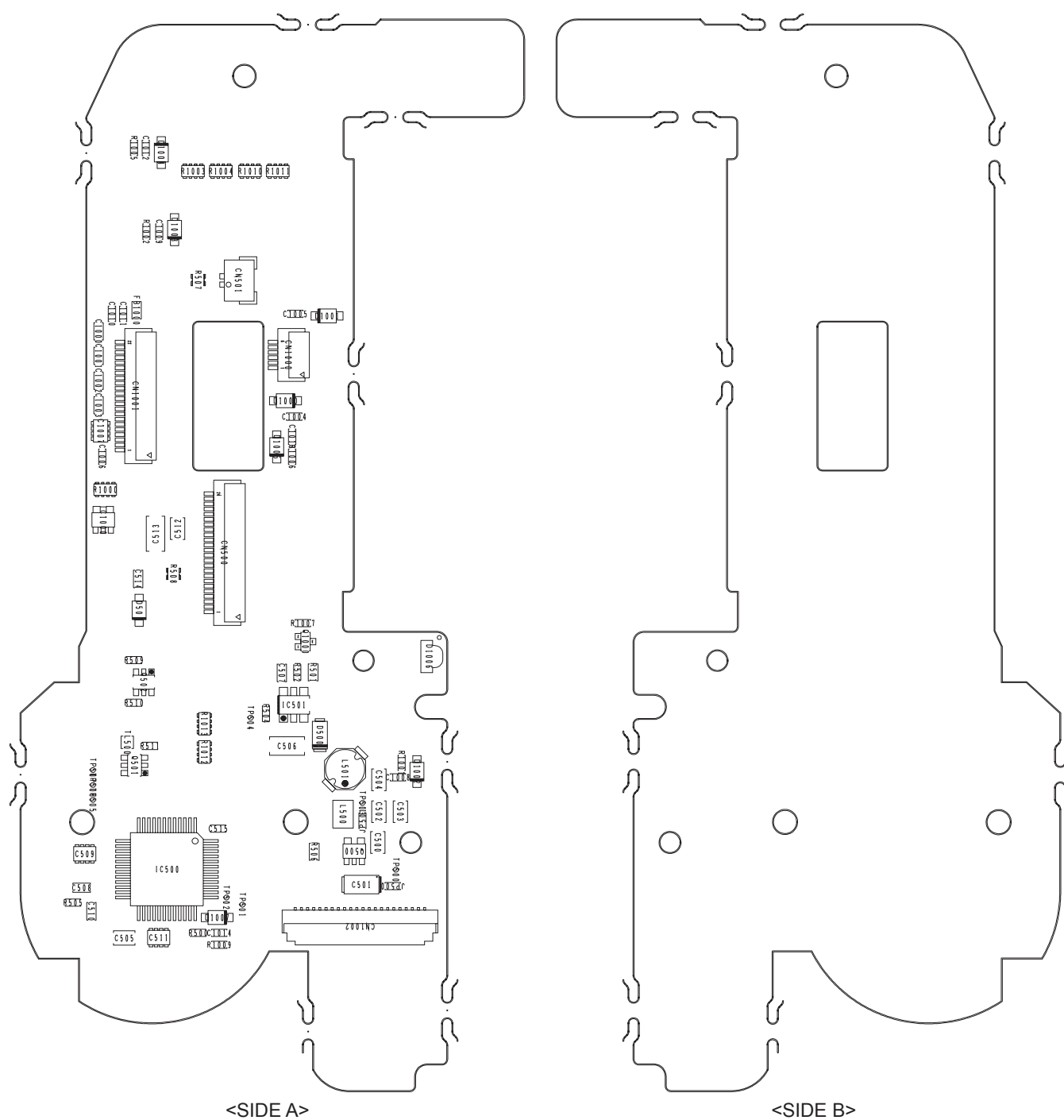
FinePix S3Pro Service Manual

<SIDE A>



3. Schematics

3-7-3. SW PWB ASSY



4. Adjustments

4-1. Important point Adjustment when Replacing Major Parts

When replacing the MAIN PWB ASSY, CAMERA BODY ASSY, CCD HOLDER ASSY, or REAR LCD PANEL, check the items marked with a circle (○) in the table below.

(These adjustments are not required when replacing items other than the units listed in the table.)

| No. | Replacing parts Adjustment item | MAIN PWB | CAMERA BODY | CCD UNIT | REAR LCD PANEL |
|-----|------------------------------------|---|-------------|----------|----------------|
| 1 | CCD Defect correction | ○ | | ○ | |
| 2 | Camera adjustment | ○ | ○ | ○ | |
| 3 | Battery voltage adjustment | ○ | ○ | ○ | |
| 4 | Video adjustment | ○ | | | |
| 5 | Rear lcd panel adjustment | ○ | | | ○ |
| 6 | Firmware download | Do not use it until there is an instruction. | | | |
| 7 | End setting | Make all adjustments after replacing the above parts. | | | |

4-2. Measuring Instruments Used

| Measuring equipment | Remarks |
|------------------------|--|
| Regulated power supply | For adjustment |
| Pattern box | PTB450F |
| Waveform monitor | For function checks |
| Digital voltmeter | For adjustment |
| Personal computer | For various adjustments and operational checks (PC-AT compatible, Windows 2000 or XP). |
| Luminance meter | LS-110 (KONICA MINOLTA) or equivalent |
| Color thermometer | Color Meter IIIF (KONICA MINOLTA) or equivalent |
| TV monitor | NTSC TV monitor, minimum resolution 600 lines (for function checks). |
| Flash meter | For function checks |

4-3. Use Jig list

| Pats.No | Name | Comment | Remarks |
|-------------|--------------------------------------|-------------------------------|----------------------------------|
| ZJ00006-100 | FilterLB140 | Camera System adjustments | Common with the DS-30/DS-20/DS-7 |
| ZJ00553-100 | AF solid chart | AF adjustment | Common with the FinePix S2 Pro |
| J18266 | AF Adjustment Lens | AF adjustment | Common with the FinePix S2 Pro |
| ZJ00876-100 | CCD defect data (CD-R) Vol.1 | CCD Defect correction | Only FinePix S3 Pro *1 |
| FZ05365-100 | USB cable | General adjustment | |
| ZJ00396-100 | Lens for inspection | AF inspection | Common with the FinePix S1 Pro |
| | Lens for adjustment | Camera adjustment | Common with the FinePix S1 Pro |
| ZJ00213-100 | Power cable jig | General Adjustment | Common with the FinePix6800Z |
| ZJ00853-100 | FinePix S3Pro PC adjustment soft | For PC adjustment | Only FinePix S3Pro *1 |
| ZJ00397-100 | Standard Drive (microdrive) | Inspection | Common with the FinePix S1 Pro |
| | AC adapter (AC-5VX) | Adjustment/Inspection | Commercial item |
| ZJ00684-100 | DSC jig driver | For PC setup | Windows 98/Me/2000/XP OS *1 |
| ZJ00398-100 | Resolution Chart for High-Definition | For Definition inspection | Common with the FinePix S1 Pro |
| ZJ00626-100 | AF target for inspection | AF inspection | Common with the FinePix S2 Pro |
| ZJ00611-100 | X-Y stage for AF adjustment | AF inspection | Common with the FinePix S2 Pro |
| ZJ00863-100 | S3Pro Battery jig | Battery adjustment | Common with the FinePix S2 Pro |
| FZ03284-100 | Video cable | VIDEO adjustment | Common with the FinePixA310 |
| ZJ00650-100 | VIDEO adjustment jig | Video adjustment | Common with the FinePixA310 |
| FZ03983-100 | AC Cable (For EG) | Use with VIDEO adjustment jig | Common with the FinePixA310 *2 |
| FZ03982-100 | AC Cable (For EU) | Use with VIDEO adjustment jig | Common with the FinePixA310 *2 |
| FZ00330-200 | AC Cable (For US/JP) | Use with VIDEO adjustment jig | Common with the FinePixA310 *2 |

*1 : Data available from WEB site.

*2 : Select one the power cable suitable for each country.

[Modification of an Inspection Lens to an Adjustment Lens]

[It is common with FinePix S1 Pro]

* If an inspection interchangeable lens is used as is, the aperture will change automatically, so there will be no convergence [ISO sensitivity adjustment] and it could result in an error.

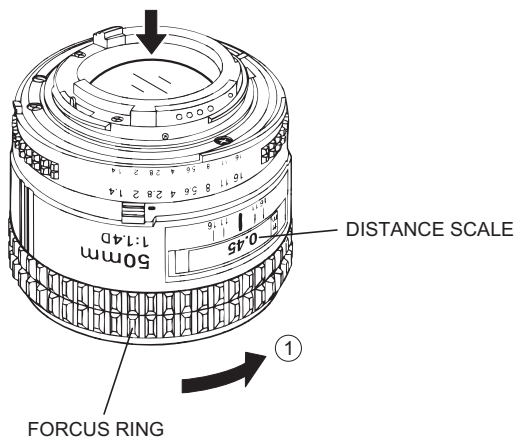
Therefore,

- (1) The CPU signal contact unit inside the lens must be removed.
- (2) The protrusion for mounting on the camera must be removed from the inspection interchangeable lens to prevent it from switching its aperture automatically, and thus modify the lens so it can be used for adjustment.

The modification procedure is shown below.

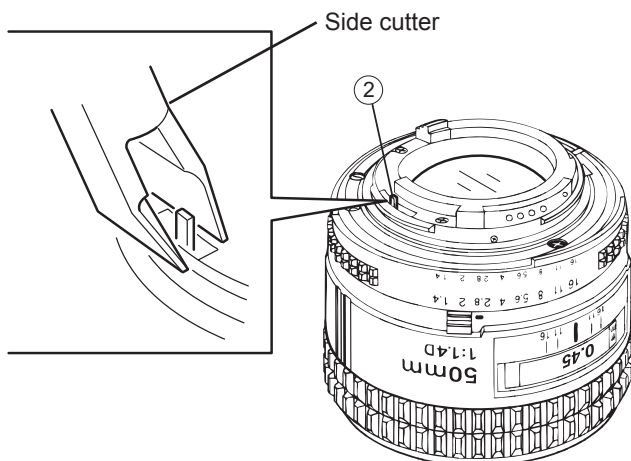
[Step 1]

Turn the focus ring (1) so that the interchangeable lens's distance scale reads 0.45, then place the lens upside down.



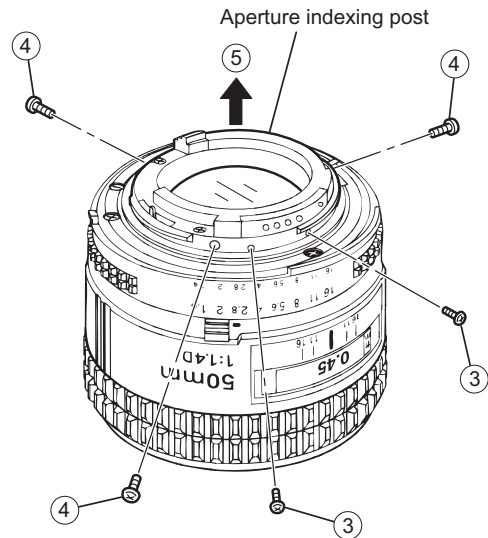
[Step 2]

Cut the stopper for the camera using side cutters, etc.



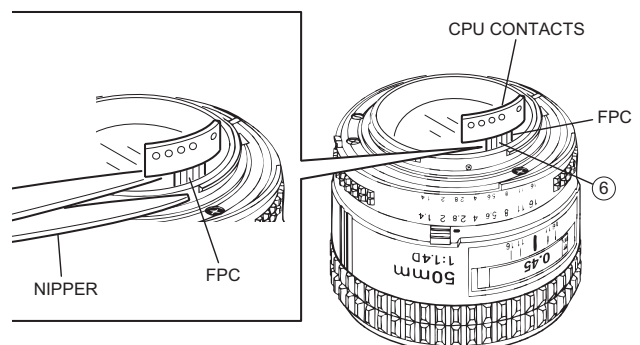
[Step 3]

Remove the screws holding the opening F value linkage guide in the order shown by the circled numbers in the figure below, then remove the opening F value linkage guide (5).



[Step 4]

Cut off the FPC of the CPU signal contacts with scissors, etc.



[Step 5]

Fasten the opening F value linkage guide with the mounting screws.

4-4. Calibration method of pattern box

< Use the pattern box for CAMERA adjustment >

Turn on the power supply in the pattern box.

Afterwards, wait for about ten minutes so that the source of light may stabilize.

(1) Brightness:

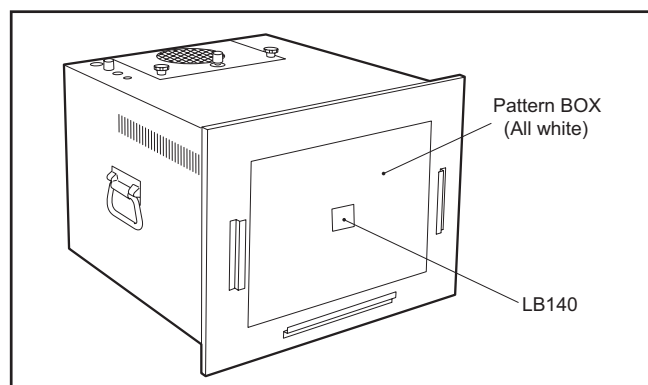
160±5cd/m² (with LB140 filter)

No chart, center of pattern box

Konica Minolta brightness meter LS-110 or equivalent

* Calibration method

Place the filter (LB140) against the pattern box. With the filter (LB140) in contact with the brightness meter, adjust the pattern box brightness to 160±5cd/m².



<Fig. 4-4-1> Calibration method of pattern box

(2) Color temperature:aa

6100±50 K (with LB140 filter)

No chart, center of pattern box

Konica Minolta color meter IIIF or equivalent

* Calibration method

Place the filter (LB140) against the pattern box. With the filter (LB140) in contact with the color temperature meter, adjust the pattern box color temperature to 6100 ± 50 K.

4-5. Adjusting soft installation

4-5-1. Various downloading software decompressions, preservation methods, and notes

The PC adjustment software are in a specified Web server, and both of these are the compression of ZIP form files.

Therefore, after downloading these compression files from the Web server, the decompression of the file is necessary.

In the decompression software, if the decompression of the ZIP form can be done, any software is OK.

(Please prepare each one for the decompression software.)

The decompression and the preservation method of the PC adjustment software and the firmware are described to the following.

* The PC adjustment soft decompression and preservation method

<Step1>

The sdjustment software is downloaded from WEB, and software is installed in the PC.

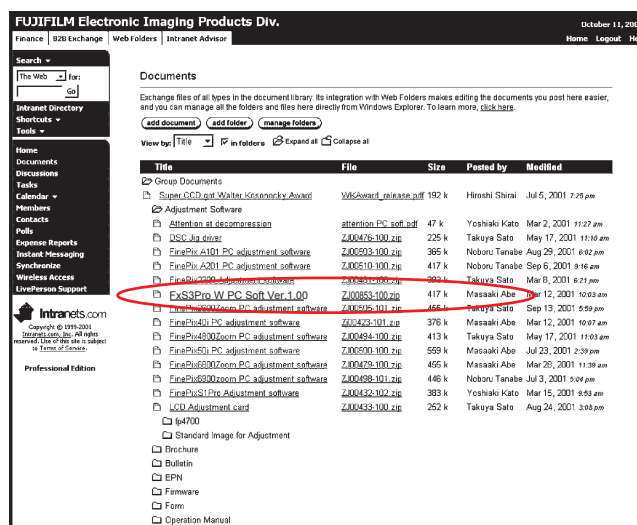
We have uploaded the **“PC Adjustment Software (ZJ00853-100.zip) for “FinePixS3Pro”** on our website: (<http://fujifilm-di.intranets.com/>).

<Step2>

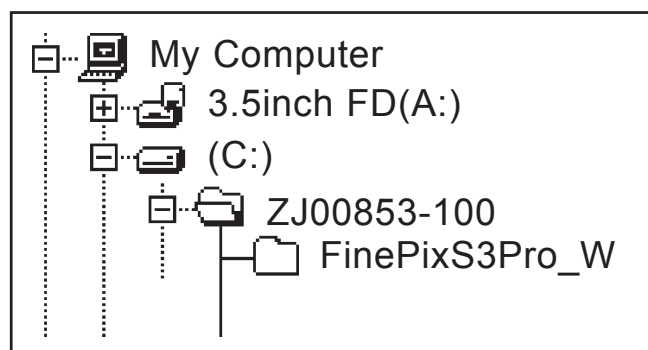
“ZJ00853-100” is a compression of “ZIP type” file.

The **“FinePix S3Pro_W”** folder can be done by extracting it by “Compression software”.

Copy the “FinePix S3Pro” and “SU-500” folder to the “C” drive on the Adjustment PC.



<Fig. 4-5-1> Fujifilm-di.intranets Screen



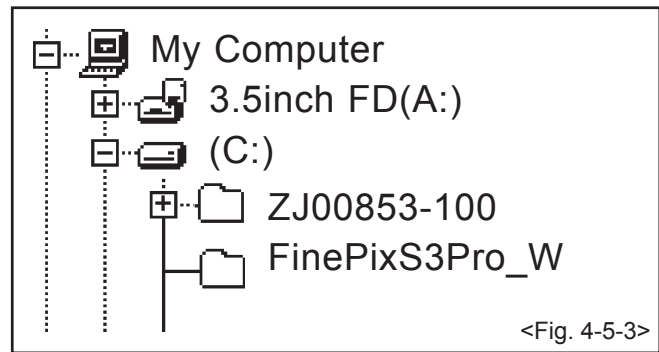
<Fig. 4-5-2>

<Step3>

When all the folders have been copied to the C:drive, double-click on [C:\FinePixS3Pro_W\FFW.exe] to start the adjustment software.

(Note)

- * Specify the preservation drive for C drive if it is decompression software which can specify the preservation drive.
- * Similarly, defrost without making a new folder if it is decompression software which can be defrosted without making a new folder.
- * Defrost simply if the decompression software which you have cannot specify the drive specification and the folder making.



[Caution][Important]

- (a) **PC adjustment software can not start when there is folder of FinePixS3Pro_W in folder named ZJ00853-100. Please preserve the folder of FinePixS3Pro_W right under C drive.**
- (b) **Please do not change the foldername named FinePixS3Pro_W. PC adjustment software can not start when foldername is changed.**

4-5-2. Installation of DSC jig driver

- * Since this camera uses the USB for communications with the personal computer, in order to start the PC adjustment software, [the DSC jig driver] needs to be installed in the personal computer beforehand.
 - * The DSC jig driver is the same as that for the FinePix S7000, so if this jig driver software is already installed in the personal computer, it is not necessary to install it.
- The procedure is given below.

<Step 1>

DSC jig driver(ZJ00684-100.ZIP) is downloaded from Web server (<http://fujifilm-di.intranets.com/>).

<Step 2>

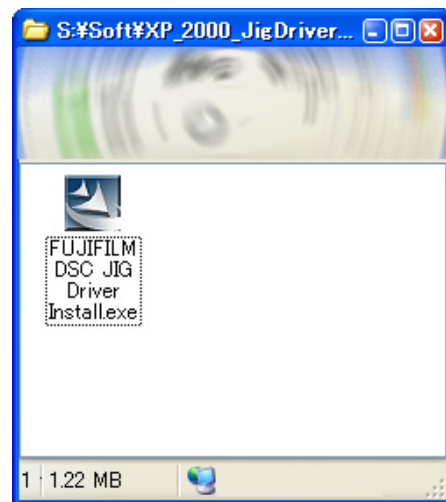
Defrost the downloaded compression software

<Step 3>

Double-click setup.exe in the folder of defrosted ZJ00684-100 and install Fuji FILM DSC Jig Driver as follows.

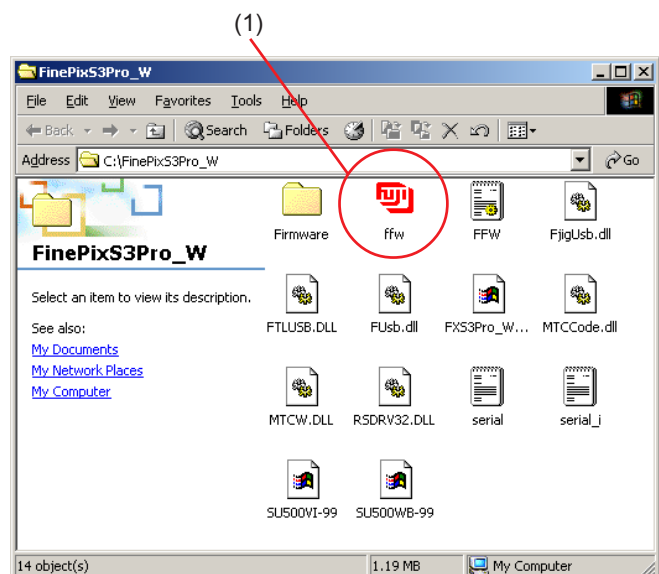
<Step 4>

Install the software in [C:\ProgramFiles\Fjig] according to the instructions on the PC's screen.



4-5-3. Adjusting soft initiation method

When the folder has been copied to the C drive, double-click on the file C:\FinePixS3Pro_W\ffw.exe (Fig.4-5-5) to start the adjustment software.



4-6. Initial Settings of the Adjustment Software

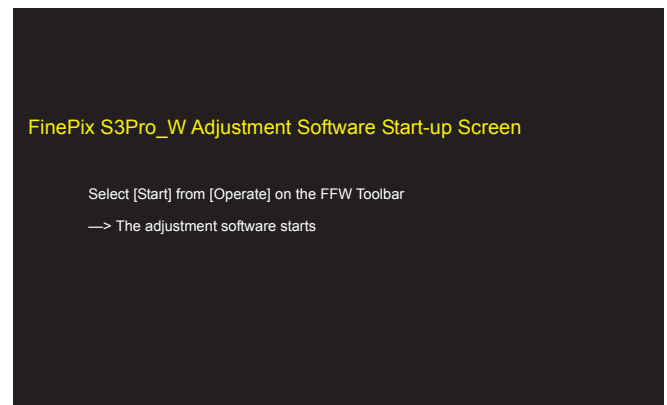
* The initial settings are already written in the "FFW.ini" file, therefore perform the following procedure to the letter.
Note that, if you change file names, the software will not start up.

* The initial settings of steps 3 to 6 are already set in the "FFW.ini" file. Therefore, you need only to check them.

* Do not rewrite the user program (FxS3Pro_W_0.ff). If the program is rewritten, the adjustment software will not startup.

<Step 1>

Double-click on the "FFW.exe" execute file of the adjustment software to open the "FFW Startup" screen (Fig. 4-6-1).

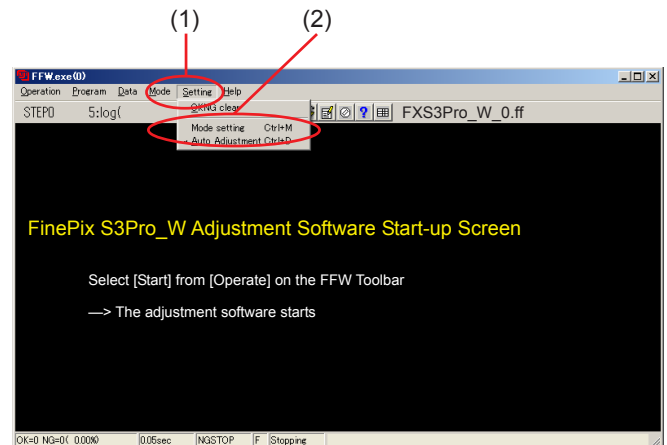


<Fig. 4-6-1>

<Step 2>

Click on "Settings" ([1] in Fig. 4-6-2) in the menubar of the startup window.

Then, select "Mode setting" ([2] in Fig. 4-6-2) from the pull-down menu that appears.



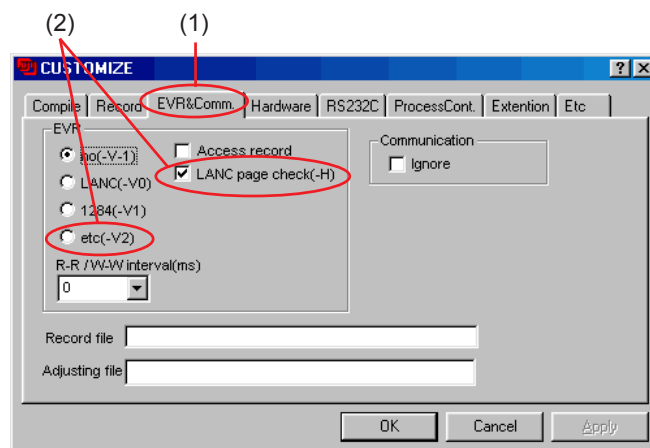
<Fig. 4-6-2>

4. Adjustments

<Step 3>

Select the "EVR & Comm" tab ([1] in Fig. 4-6-3) in the "Customize" dialog box that appears.
Set the "EVR" items ([2] in Fig. 8) as follows.

| Item | Details |
|-----------|---------|
| etc (-V2) | Check |
| LANC page | Check |

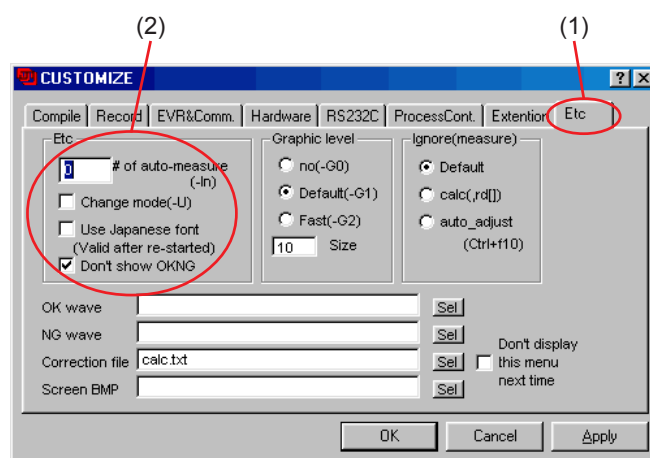


<Fig. 4-6-3>

<Step 4>

Select the "Etc" tab ([1] in Fig. 4-6-4) in the "Customize" dialog box that appears. Set the "Etc" items ([2] in Fig. 4-6-4) as follows.

| Item | Details |
|--|-----------------------|
| # of auto measure (-In) | 0 |
| Change mode (-U) | Do not check |
| Use Japanese font (Valid after re-started) | Do not check |
| Don't show OK NG | Check or Do not check |



<Fig. 4-6-4>

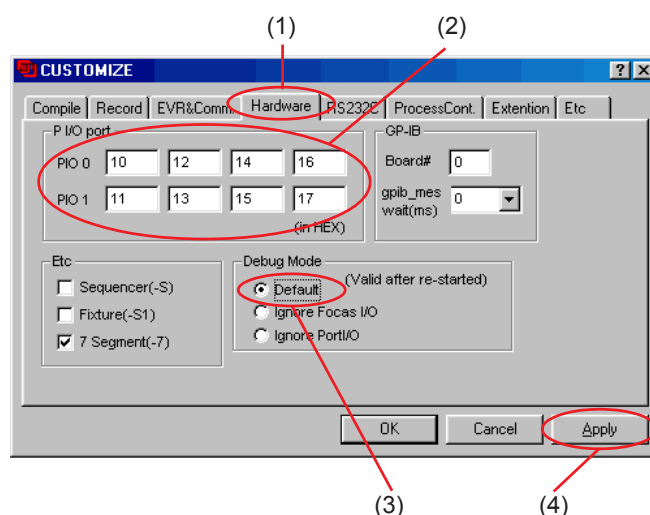
<Step 5>

Select the "Hardware" tab ([1] in Fig. 4-6-5) in the "Customize" dialog box that appears.
Input the values for PI/O port and P Board ([2] in Fig. 4-6-5).

| | | | | |
|-------|----|----|----|----|
| PIO 0 | 10 | 12 | 14 | 16 |
| PIO 1 | 11 | 13 | 15 | 17 |

Set the "Hardware" items ([3] in Fig. 4-6-5) as follows.

| Item | Details |
|------------|------------------|
| Debug Mode | Select [Default] |



<Fig. 4-6-5>

<Step 6>

Once the above settings have been made, click on "Apply" ([4] in Fig. 4-6-5) in the "Customize" dialog box to complete setup.

This applies the setup, therefore setting is unnecessary from the next time forward.

[Note]

If [Disable OKNG display] on the PC screen (Fig. 4-6-4) is set to OFF, the PC screen displays [OK] if adjustment is OK, and [NG] if adjustment is NG (either setting is OK).

Cautions When Adjusting

*1) FinePix S3Pro cannot adjust the EVR data reading and writing.(Details are right tables.)

*2) End Setting returns the camera from the Jig mode to the Product Mode.

End Setting is required when using the PC adjustment software, even when replacing boards or units other than those noted above. Failure to run End Setting will prevent identification as Mass Storage.

When the camera is connected to the PC, and prevent communication with the PC.

*3) When all adjustment have been completed, always check that the camera is identified as Mass Storage.

| Menu | Command | Details |
|-----------|---------------------|---|
| Operation | Start | Program start |
| | Stop | Program stop |
| | Temporary stop | Temporary program stop |
| | Step 0 | Do not use |
| | End | Terminate program |
| Program | Reload | Program (*.ff) reload |
| | Select | Program (*.ff) select |
| | Edit | Program (*.ff) edit |
| Data | ad[] | Do not use |
| | rd[] | Do not use |
| | SW | Do not use |
| | fsw | Do not use |
| | EVR | Do not use *) |
| Mode | File record | Do not use |
| | NGSTOP | Program stopped if |
| | | adjustment is NG |
| | STEP | Do not use |
| | LINE | Do not use |
| | AUTO | Do not use |
| Setting | OKNG clear | Do not use |
| | Mode set | Sets up mode |
| | Automaticadjustment | Execution setting for Auto Adjust in user program |
| Help | Help | Basic software help |
| | FF help | User program help |
| | Focus | Not used with this adjustment software |
| | Version | Version information for basic software |

<Table> FFW.exe Commands

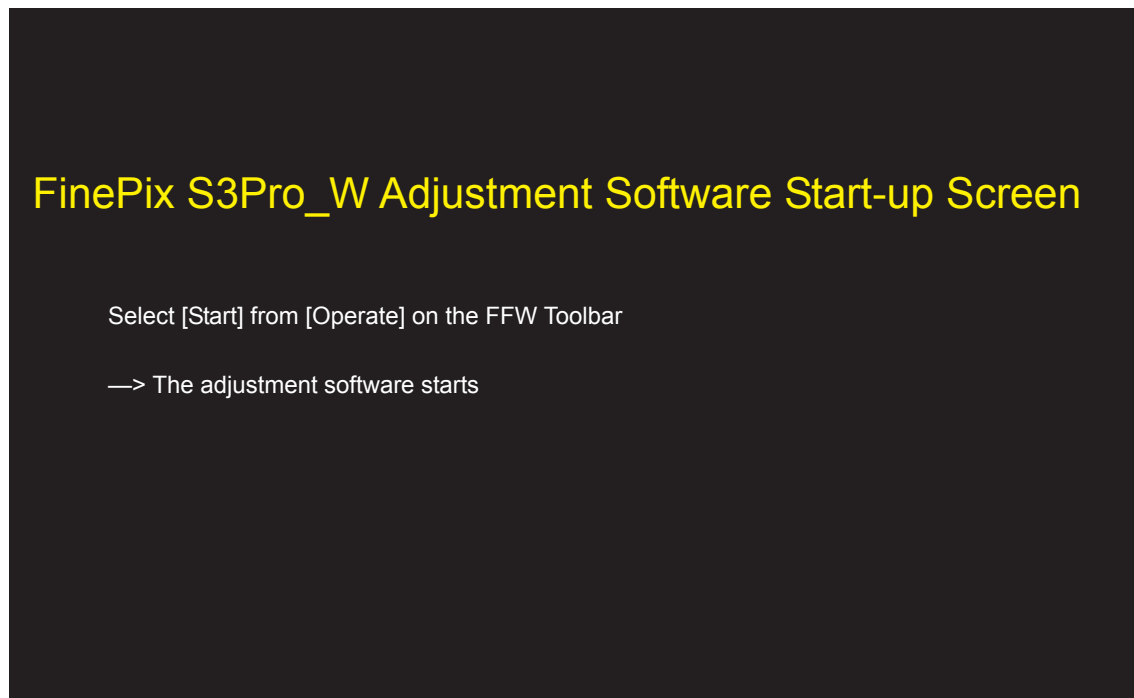
4-7. Starting the Adjustment Software

<Step 1>

Double-click on [FFW.EXE] (Fig. 4-5-3) in the folder copied to the C drive (see '4-5-1. Various downloading software decompressions, preservation methods and notes') to display the adjustment software start-up screen.

<Step 2>

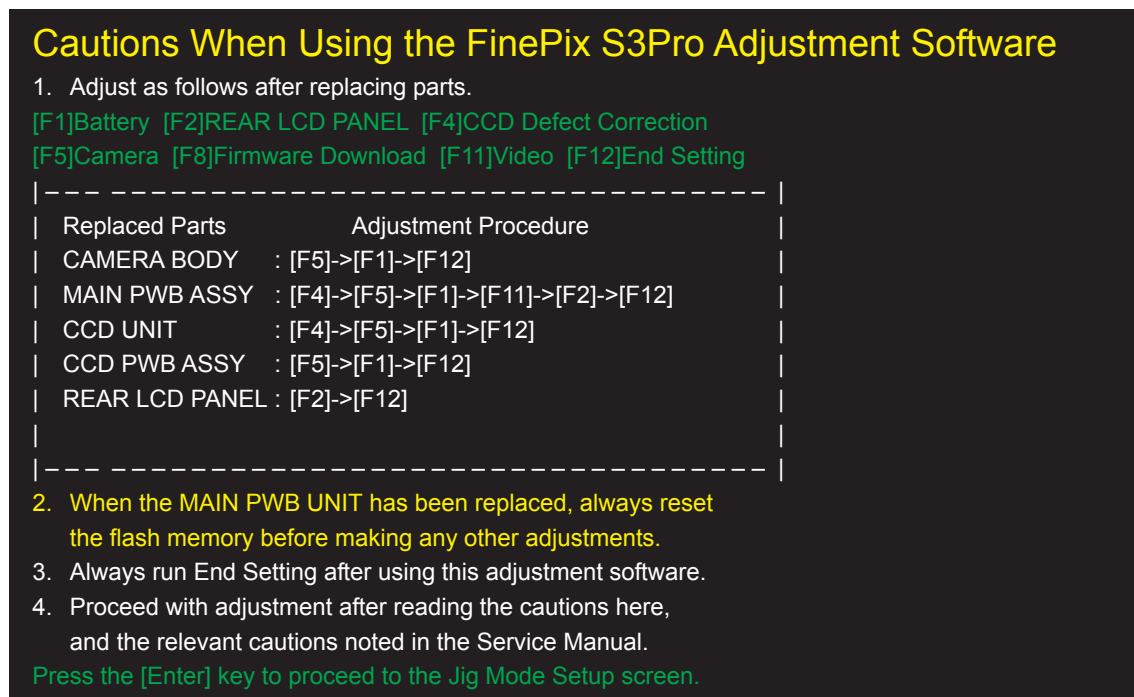
Run the adjustment in accordance with the instructions on the screen.



<Fig. 4-7-2>

—> The [Cautions When Using the Adjustment Software] screen appears.

<Step 3>



<Fig. 4-7-2>

—> The [Jig Mode Setup] screen appears.

<Step 4>

FinePix S3Pro Jig Mode Setup Procedure

- (1) Mount the adjustment lens on the S3Pro.
- (2) Set the focus ring on the adjustment lens to infinity.
- (3) Set the aperture ring on the adjustment lens to F5.6.
- (4) Set the mode dial to M mode.
- (5) Set the focusing mode switch to MF.
- (6) Open the slot cover.
- (7) Connect the USB cable to the camera.
- (8) Supply 6.00 volts to the camera from the S3Pro battery jig.
- (9) Switch-ON the camera power while pressing the shutter button for vertical shooting.
- (10) Check that the shutter speed is displays on the LCD of the camera body.

Press the [Enter] key after completing the procedure of (1)-(10).

<Fig. 4-7-3>

—> The [Firmware version check] screen appears.

<Step 5>

FirmWare = 1.00

Vendor Name =FUJIFILM
Manufacturer =FUJIFILM
ProductName =FinePix
Device Type =CAMERA
SerialNo =Y-731^^^^^040707C0PX0000000001
Frame Work =1.00

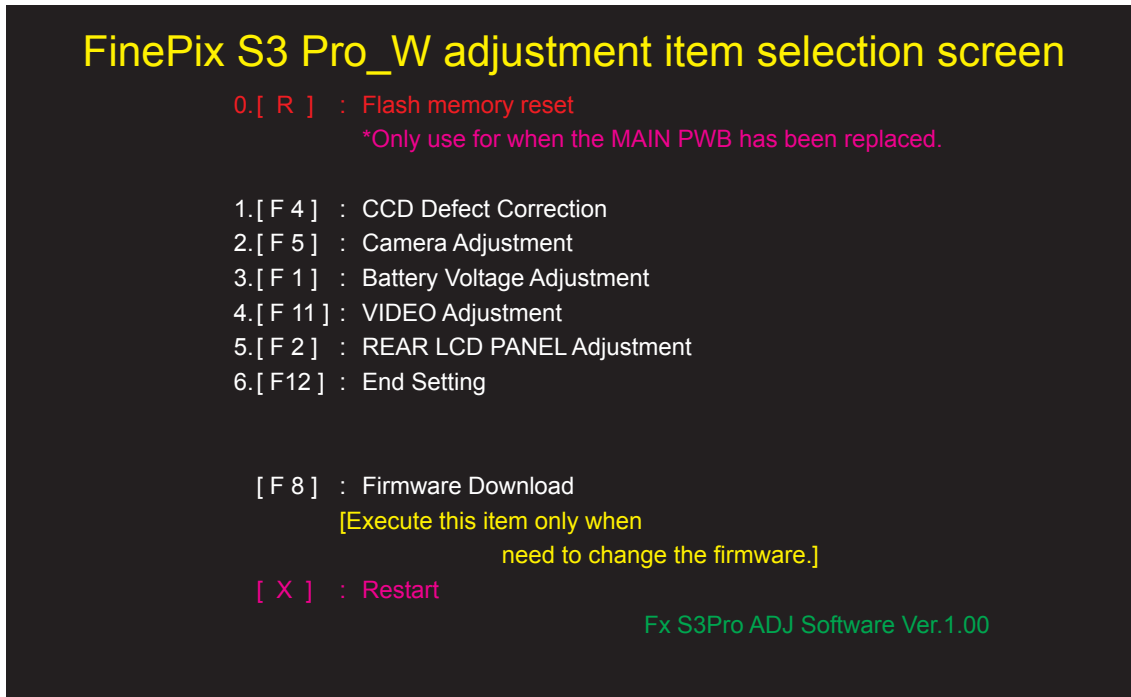
Please download a new version if it is necessary to download the firmware.

Advance to the adjustment item selection screen when press the [Enter] Key of PC.

<Fig. 4-7-4>

—> The [Adjustment Items Selection] screen appears.

<Step 6>



<Fig. 4-7-5>

<Note>

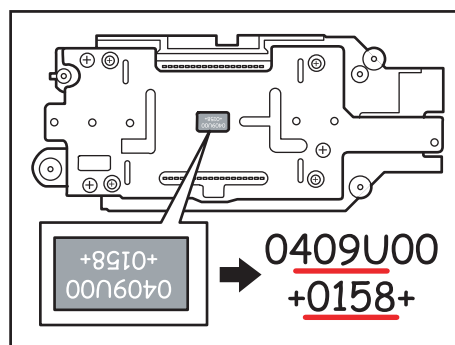
- (1) 'FxS3Pro W PC Soft Ver.1.00' at the bottom-right of the screen indicates the version number of the adjustment software.
- (2) After running firmware download, other adjustments may be required depending on the content of the download software. In such cases, the items to be adjusted, and the sequence of adjustment, will be indicated separately.
- (3) After starting the adjustment software and beginning communication with the camera, always run End Setting following adjustment and before returning the camera to the customer. If the End Setting is not run, the PC will not recognize the camera when the two are connected.
Reason: As the camera will remain in the Jig mode (repair mode), it will not be recognized with the normal camera drivers.
- (4) When the adjustment is interrupted after the [X]:Restart key is pushed, it remains about the Jig mode.

4-8. [F4] : CCD Defect Correction

CCD defect correction is required when the CCD UNIT or MAIN PWB ASSY is replaced.

[Method of acquiring CCD data]

1. When you exchange CCD UNIT
--> It is attached to CCD UNIT.
2. When you exchange MAIN PWB ASSY
--> Need to be create the CCD data floppy disk.
* The following example assumes the use of the serial No. shown at right.



<Fig. 4-8-1>

<Step 1>

Read the serial number of CCD UNIT.

The numbers shown at right are as follows.

First line: 0409U00 (seven digits)

Bottom line: 0158 (four digits)

The name of the CCD data file containing this number is "409U0158.dat".

* Use the 2-5th digit from the first line.

* Use the 1-4th digit from the Bottom line.

Cautions:

1. The S3Pro uses 2 types of defect data file.
The file extensions used for CCD defect data are ".dat" and ".kiz".
Windows may be set to hide file extensions. If so, change the Windows settings so that file extensions are displayed.
2. In addition to numbers, letters are also used in the CCD serial No. The data file name is instructed in the same manner in this case.
3. Ensure that the CCD serial No. is read correctly. If the file name is read incorrectly CCD data for another camera will be loaded when this file is used.

<Step 2>

Download the ZIP file of top four digits from Web server (<http://fujifilm-di.intranets.com/>).

Open [ZJ00835-100] in the CCD defect data folder, and download "409U.zip".

<Step 3>

Decompress "409U.zip".

--> "409U folders" including "409U0158.dat" and "409U0158.kiz" is made.

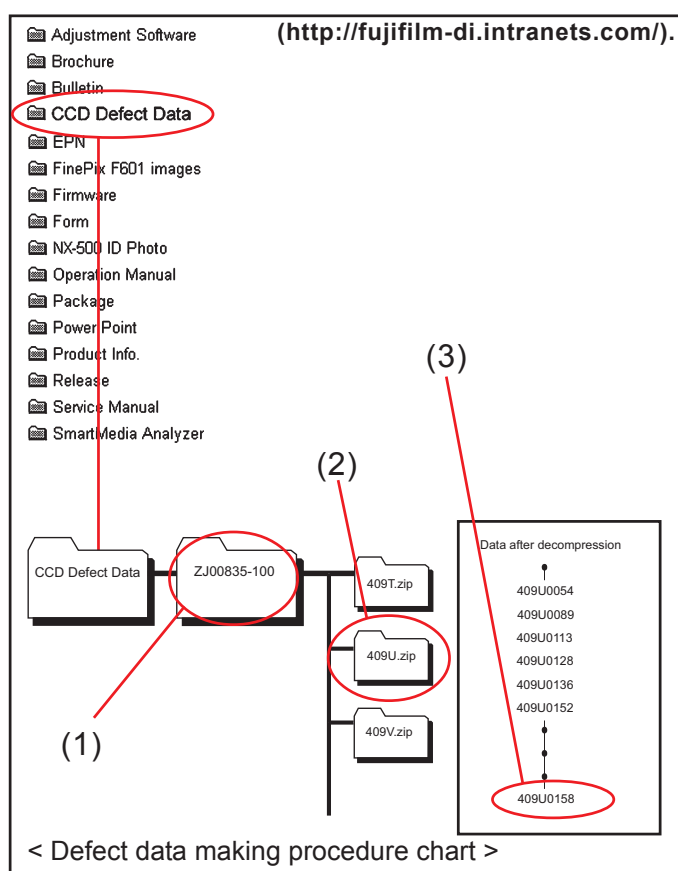
<Step 4>

Insert a writable floppy disk into the floppy disk drive on the computer.

<Step 5>

Open in "409U folders", search for "409U0158.dat" and "409U0158.kiz", and copy it onto the floppy disk.

Caution: Do not create a folder on the floppy disk when copying the data.



< Adjustment >

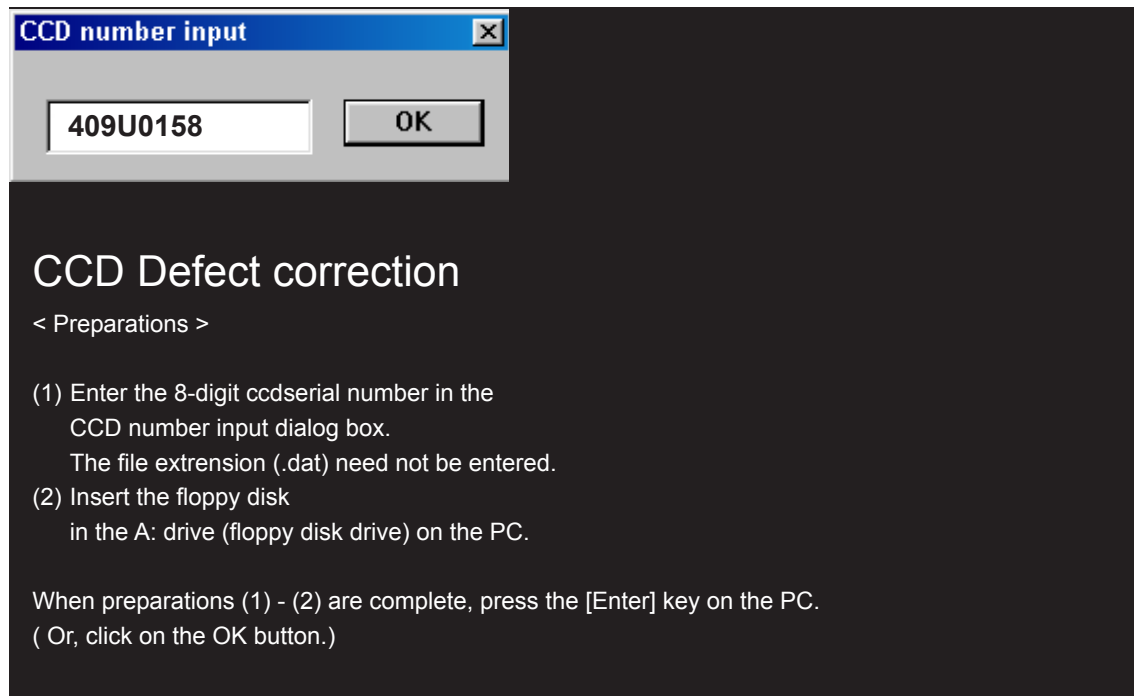
<Step 1>

Select [F4] CCD Defect correction on the [Adjustment Items Select] screen.

--> The [CCD Defect correction Start] screen appears.

<Step 2>

Run the adjustment in accordance with the instructions on the screen.

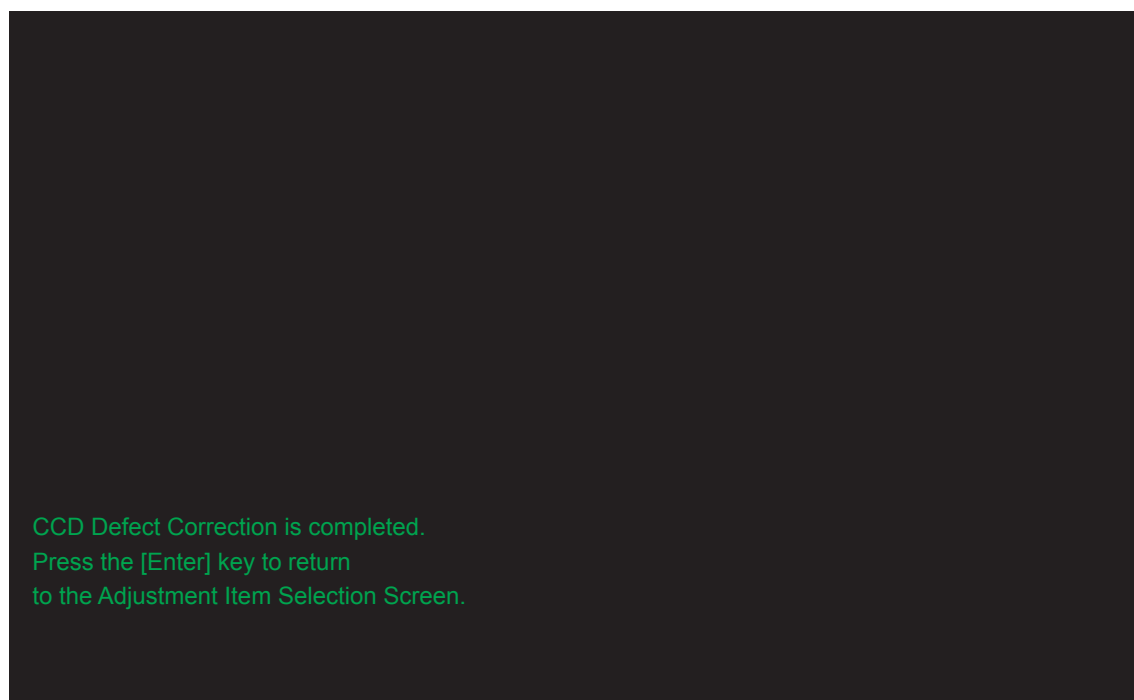


<Fig. 4-8-2>

--> Write the adjustment data to the flash ROM when adjustment has been completed correctly.

--> The [CCD Defect Correction Complete] screen appears.

<Step 3>



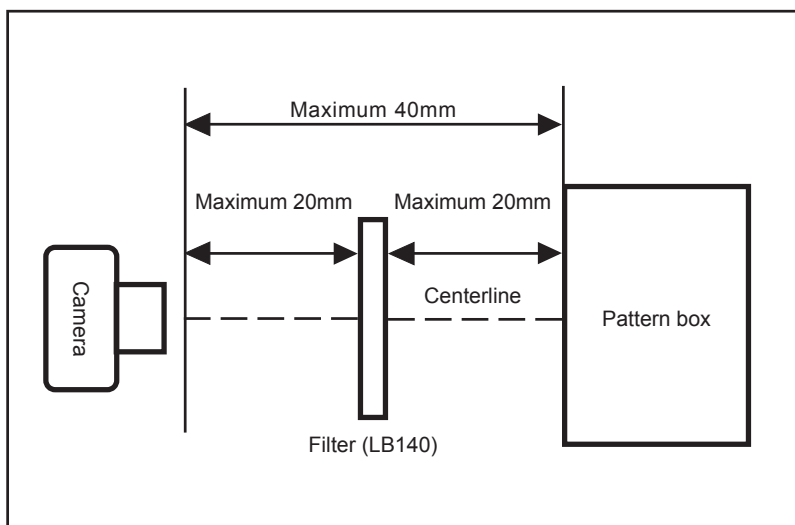
<Fig. 4-8-3>

4-9. [F5] : CAMERA Adjustment

(adjustment for reduced aperture sensitivity, ISO sensitivity adjustment, white balance adjustment, offset level adjustment)

< Setup for Camera Adjustment >

Finish the calibration of the pattern box before CAMERA adjustment.

**<Step 1>**

Select [F5] CAMERA Adjustment on the [Adjustment Items Select] screen.

--> The [CAMERA Adjustment Preparation] screen appears.

<Step 2>

Run the adjustment in accordance with the instructions on the screen.

CAMERA Adjustment

< CAMERA Adjustment Preparations >

- (1) Prepare the LB140 filter.
- (2) Adjust the color temperature of the pattern box (PTB450) to 6100 \pm 50K.
- (3) Adjust the luminance of the pattern box (PTB450) to 160 \pm 5cd/m².
- (4) Fix the camera on a tripod and set it in front of the pattern box.

When preparations (1)-(4) are complete, press the [Enter] key on the PC.

<Fig. 4-9-1>

<Note>

An error will occur during CAMERA adjustment, and adjustment cannot be completed, unless the pattern box is calibrated correctly.

--> The [Camera adjustment with filter] screen appears.

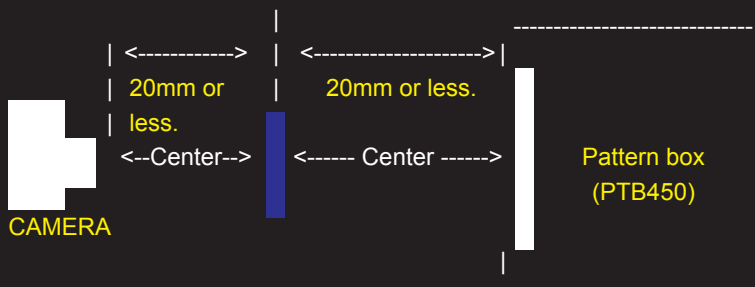
<Step 3>

Camera adjustment with filter

- (1) Set the distance between the camera and pattern box.
- (2) Place the LB140 filter in front of the lens.

When preparations are complete, press the [Enter] key.

LB140 filter



< Setup for CAMERA Adjustment >

<Fig. 4-9-2>

--> The [Camera adjustment without filter] screen appears.

<Step 4>

Camera adjustment without filter

- (1) Set the distance between the camera and pattern box.
- (2) The LB140 filter is not placed in front of the lens.

When preparations are complete, press the [Enter] key.

LB140 filter



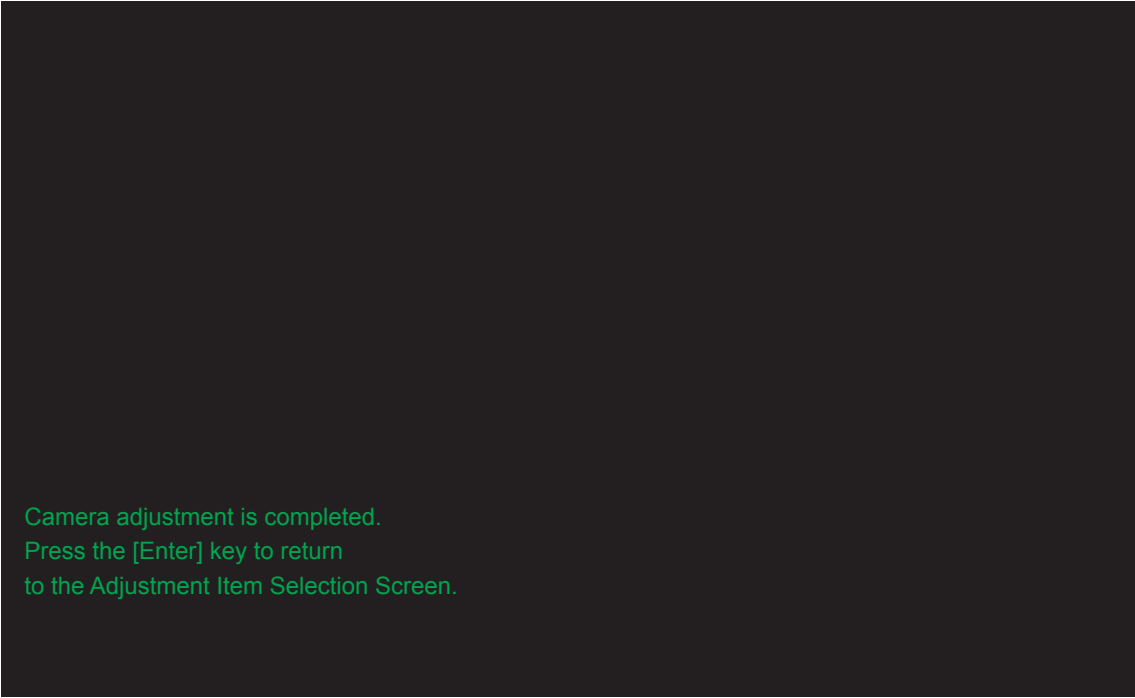
< Setup for CAMERA Adjustment >

<Fig. 4-9-3>

--> Write the adjustment data to the flash ROM when adjustment has been completed correctly.

--> The [CAMERA Adjustment Complete] screen appears.

<Step 5>



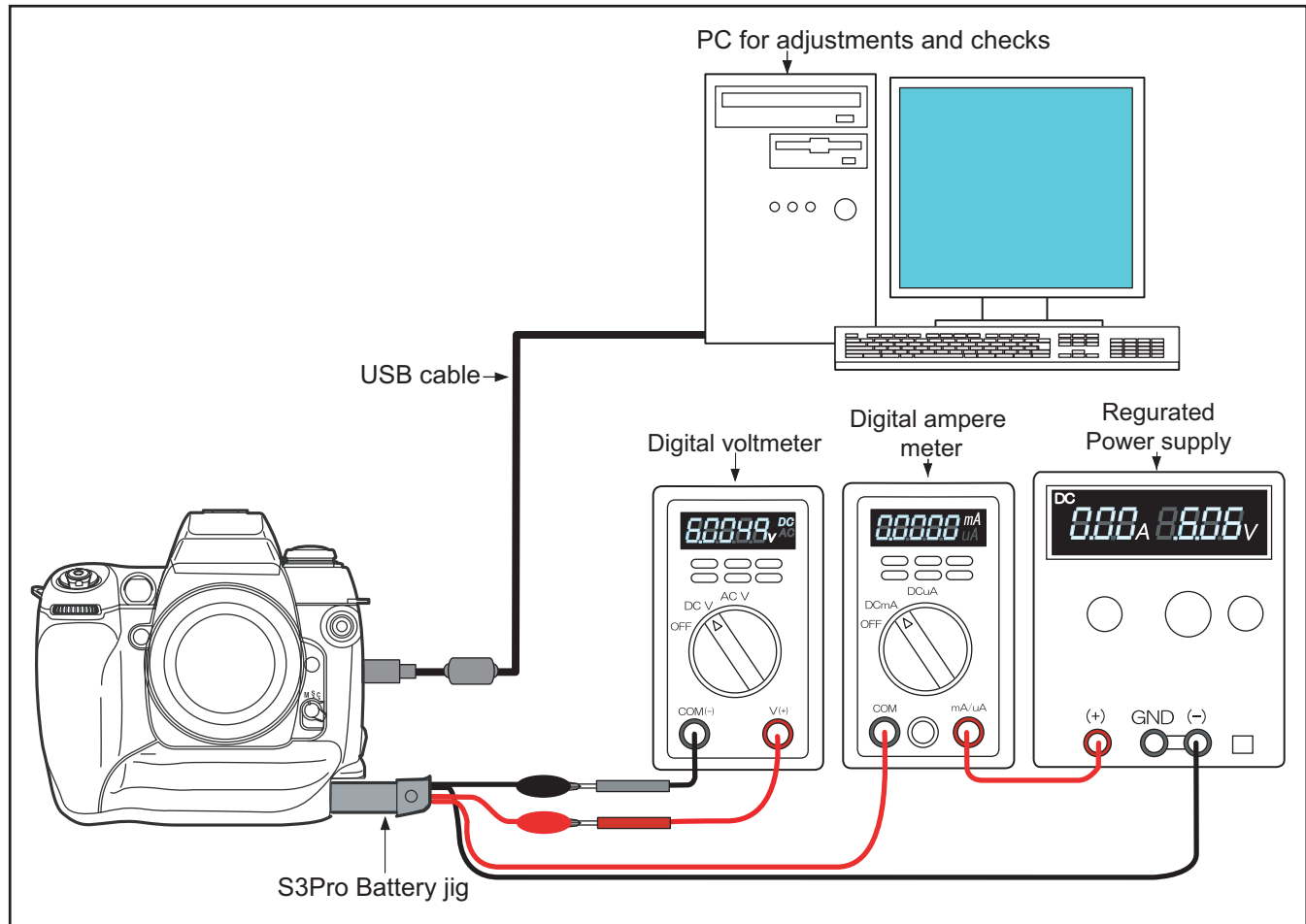
Camera adjustment is completed.
Press the [Enter] key to return
to the Adjustment Item Selection Screen.

<Fig. 4-9-4>

4-10. [F1] : Battery Voltage Adjustment

<Setup for Flash Adjustment>

- (1) When adjusting the battery voltage, supply power (6V) to the camera from the **[S3Pro Battery jig]** before setting the jig mode.
- (2) Always measure input voltage in the vicinity of the DC IN terminal.
- (3) When reducing the voltage, adjust the stabilized power supply to ensure that the voltage is not reduced excessively from the measured point. The adjustment software may produce an error if communication between the adjustment software and the camera is disrupted. Restart the adjustment software in this case.



<Step 1>

Select [F1] Battery Voltage Adjustment on the [Adjustment Items Select] screen.

—> The [Battery Voltage Adjustment Preparation] screen appears.

<Step 2>

Run the adjustment in accordance with the instructions on the screen.

Battery Voltage Adjustment

<Preparations>

1. Check that the S3Pro BATT. jig and the camera are connected.
*If not, return to the Jig Mode Setup screen,
and connect the S3Pro BATT. jig and the camera.
2. Supply power (6.0V) to the camera from the
[S3Pro BATT. jig].

When preparations are complete, press the [Enter] key on the PC.

<Fig. 4-10-1>

—> The [4.56V Input] screen appears.

<Step 3>

Battery Voltage Adjustment

- (1) Supply 4.56V (+0.02V/-0.00V).
When preparation is complete, press the [Enter] key.

<Fig. 4-10-2>

—> The [4.40V Input] screen appears.

<Step 4>

Battery Voltage Adjustment

- (1) Supply 4.56V (+0.02V/-0.00V).
When preparation is complete, press the [Enter] key.
Result= 4C
- (2) Supply 4.40V (+0.02V/-0.00V).
When preparation is complete, press the [Enter] key.

<Fig. 4-10-3>

—> The [6.00V Input] screen appears.

<Step 5>

Battery Voltage Adjustment

- (1) Supply 4.56V (+0.02V/-0.00V).
When preparation is complete, press the [Enter] key.
Result= 4C
- (2) Supply 4.40V (+0.02V/-0.00V).
When preparation is complete, press the [Enter] key.
Result= 49
- (3) Supply 6.00V (+-0.05V).
When preparation is complete, press the [Enter] key.

<Fig. 4-10-4>

—> Write the adjustment data to the Flash ROM when adjustment has been completed correctly.

—> The [Battery Voltage Adjustment Complete] screen appears.

<Step 6>

The BATTERY adjustment is completed.

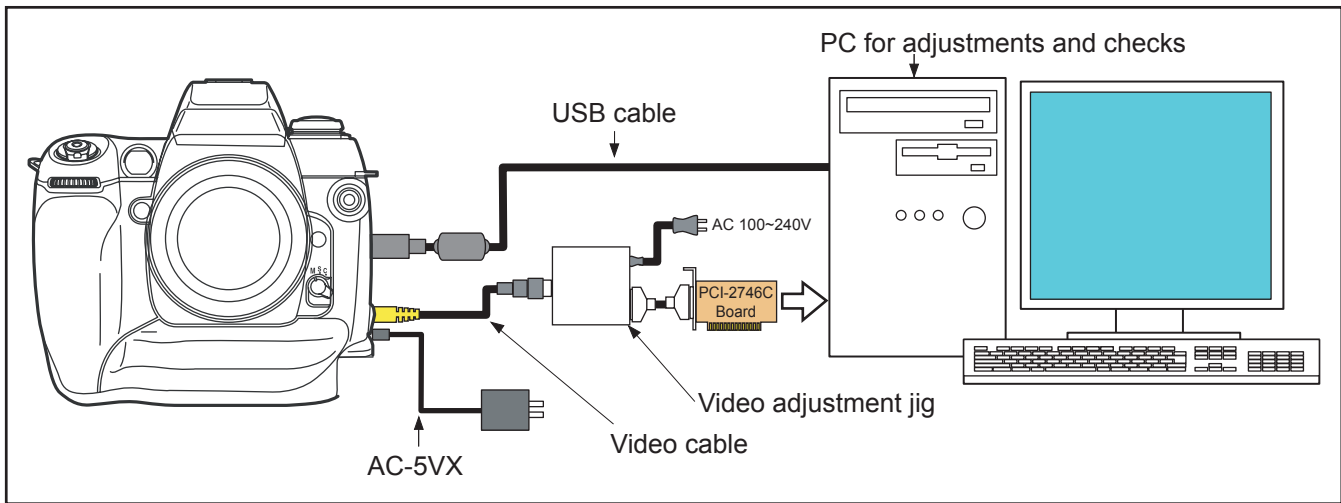
Press the [Enter] key to return to the
Adjustment Item selection Screen.

<Fig. 4-10-5>

4-11. [F11] : Video Adjustment

<Setup for Video Adjustment>

- (1) Set up the PCI-2746C board in the computer as explained in the instructions for the video adjustment jig.
- (2) If the waveform of the brightness signal (Y) or color signal (C) does not appear in the "WAVE No. 0" window during adjustments, check the connections of the video adjustment jig.



<Step 1>

Select [F11] Video Adjustment on the [Adjustment Items Select] screen.

—> The [Video Adjustment Preparation] screen appears.

<Step 2>

Run the adjustment in accordance with the instructions on the screen.

VIDEO Adjustment

< VIDEO Adjustment Preparations >

- (1) Connect the camera and video adj. jig with the video cable.
- (2) Confirm Video jig is connected with the video cable.

When preparations are complete,
press the [Enter] key.

<Fig. 4-11-1>

—> Write the adjustment data to the Flash ROM when adjustment has been completed correctly.

—> The [VIDEO Adjustment Complete] screen appears.

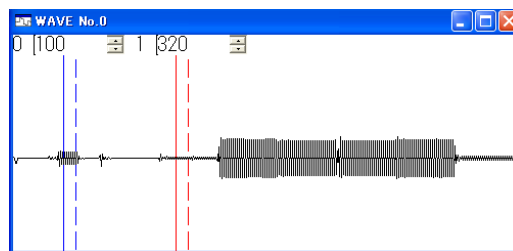
<Step 3>

Video adjustment is completed.

1. Disconnect Video cable from camera.
2. Close the [WaAVE No.0] window by close button.

Press the [Enter] key to return to the Adjustment Item selection Screen.

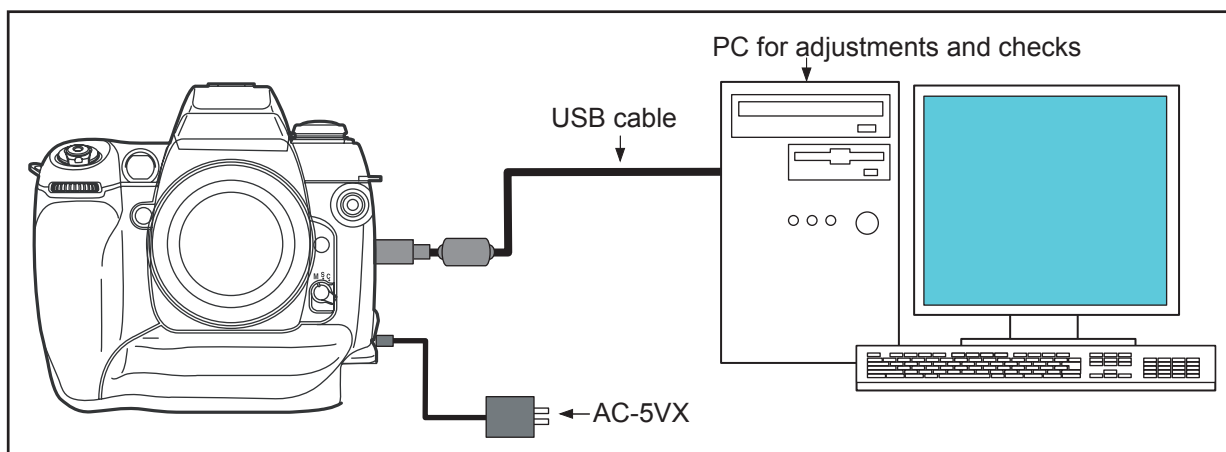
<Fig. 4-11-2>



<Fig. 4-11-3>

4-12. [F2] : Rear LCD Panel Adjustment

<Connections for Rear LCD panel Adjustment>



<Step 1>

Select [F2] Rear LCD Panel Adjustment on the [Adjustment Items Select] screen.

—> The [Rear LCD Panel Adjustment Preparation] screen appears.

<Step 2>

Run the adjustment in accordance with the instructions on the screen.

REAR LCD PANEL Adjustment

Press [UP Arrow] and [DOWN Arrow] of the arrow key to PC as the quadrangle painted out is most clearly displayed in the blacks.

present value = OF

UP Arrow --- To derken

DOWN Arrow --- To bright

The adjustment data is fixed, when press the [Enter] key.

<Fig. 4-12-1>

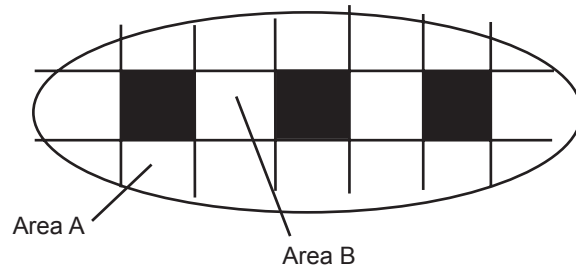
The adjustment pattern is displayed in the Rear LCD Panel (*1).

Adjust the display using the up and down arrow keys on your computer until the pattern is most clearly visible.

—> Write the adjustment data to the Flash ROM when adjustment has been completed correctly.

—> The [Rear LCD Panel Adjustment Complete] screen appears.

- *1 The adjustment pattern shown below appears on the Rear LCD Panel. In the optimum setting, no cross talk(shadowing) appears in the areas adjacent to the black sections (A and B), and the black sections appear completely black.



<Sample of the Rear LCD Panel adjustment pattern>

<Step 3>

REAR LCD PANEL adjustment is completed.

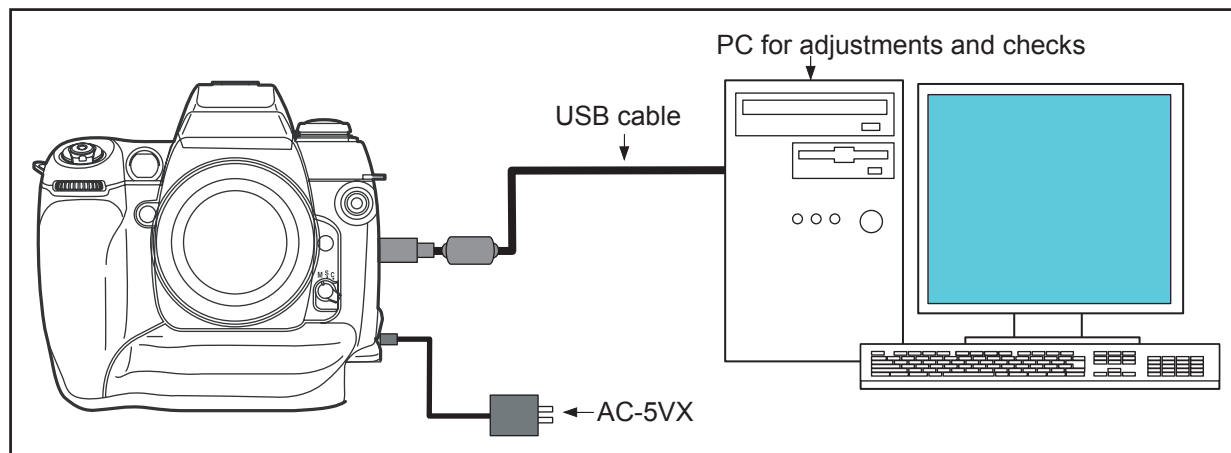
Press the [Enter] key to return to the
Adjustment Item selection Screen.

<Fig. 4-12-2>

4-13. [F8] : Firmware Download

Attention : When the download of the firmware is needed, FUJI SERVICE BULLETIN is contacted from FTYO/QA. Till then, disregard this item.

<Setup for Firmware Download>



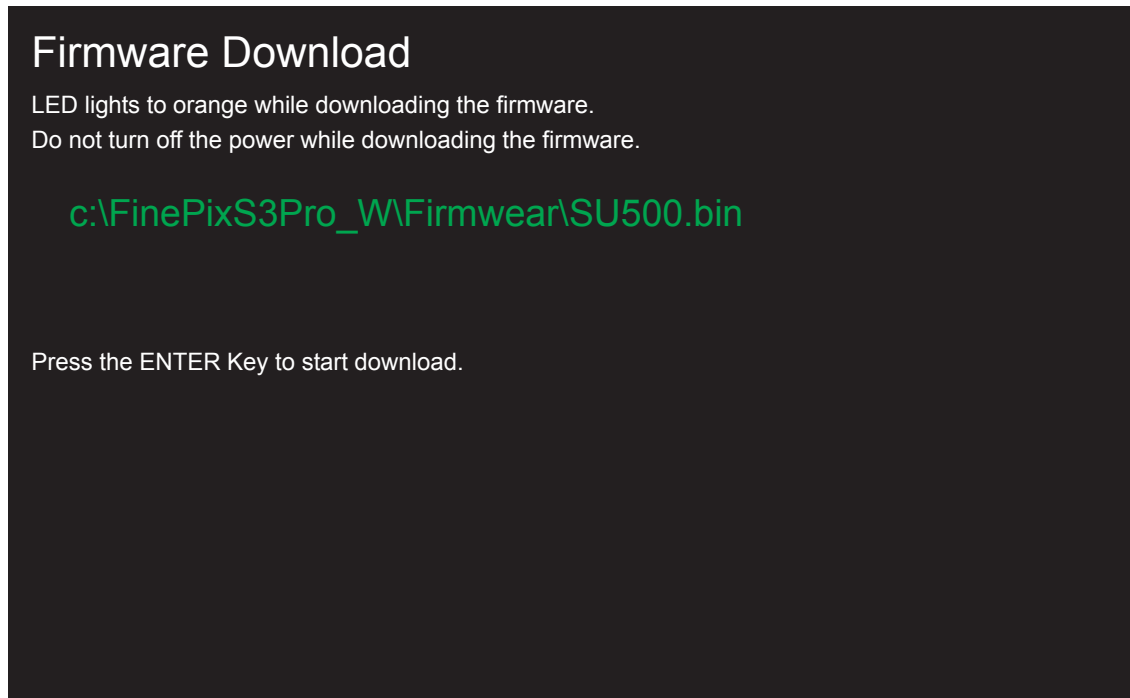
<Step 1>

Select [F8] Firmware Download on the [Adjustment Items Select] screen.

—> The [Firmware Download Start] screen appears.

<Step 2>

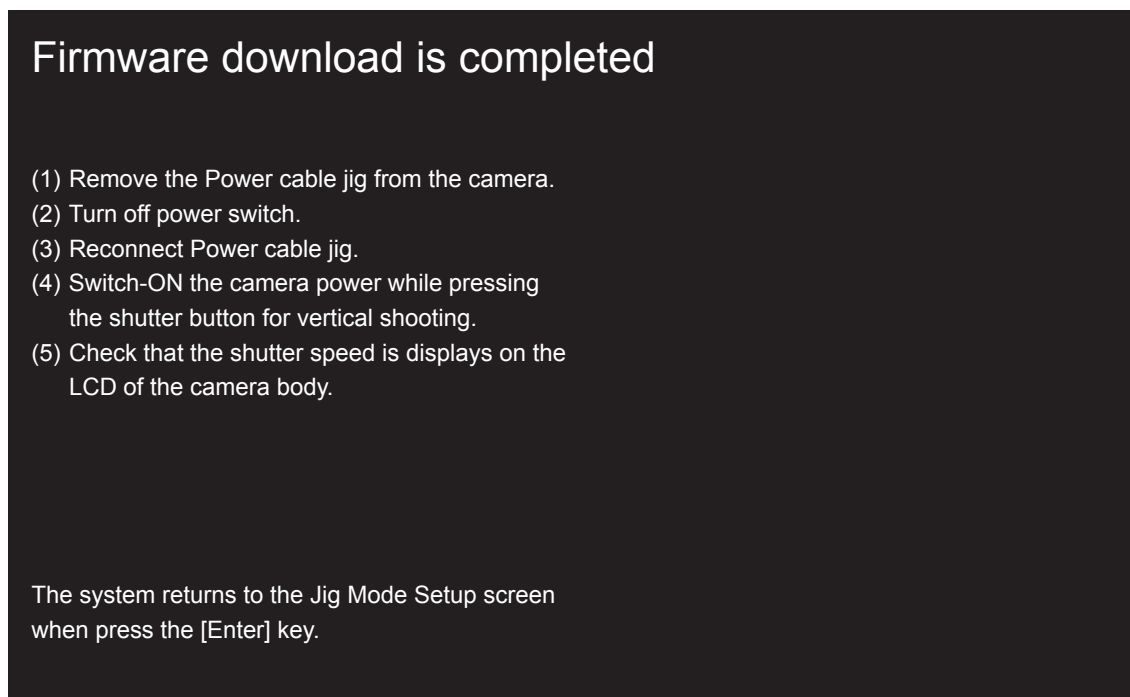
Run the adjustment in accordance with the instructions on the screen.



<Fig. 4-13-1>

—> The [Download Complete] screen appears if download is successful.

<Step 3>



<Fig. 4-13-2>

4-14. [F12] : End Setting

(Destination setting, USB_ID write, IEEE1394_ID write, Product mode setting)

1. The End setting consist of the following settings.
 - * Destination setting
 - * USB_ID write
 - * IEEE1394_ID write
 - * Product mode setting (mass storage identification)
2. The setting must always be run when the adjustment software is terminated. Failure to run Terminal Setting will prevent identification as Mass Storage when the camera is connected to the PC.
3. USB_ID write details
 - 1) USB_ID write requires that the USB device (in this case FinePix S3Pro) be unique throughout the world. For this reason, each device has a unique ID as determined by the USB standard. If multiple devices with the same USB_ID are connected to a single PC, the PC will be unable to identify each USB device, thus preventing operation.

| Item | Details | | | |
|-------------------|---|-------|-----------|-------|
| Repair Date | Date information is acquired from the PC and written. | | | |
| Administrator ID | C(43) | | | |
| Repair Station | U.S. | 61(a) | SAPPORO | 30(0) |
| | Canada | 62(b) | SENDAI | 31(1) |
| | Hawaii | 63(c) | TOKYO | 33(3) |
| | Taiwan | 64(d) | NAGOYA | 34(4) |
| | England | 66(f) | OSAKA | 35(5) |
| | Germany | 67(g) | HIROSHIMA | 37(7) |
| | France | 68(h) | FUKUOKA | 38(8) |
| | Spain | 69(i) | | |
| | Italy | 6A(j) | | |
| | Netherlands | 6B(k) | | |
| | Belgium | 6C(l) | | |
| | Sweden | 6D(m) | | |
| | Switzerland | 6E(n) | | |
| | Norway | 6F(o) | | |
| | Finland | 70(p) | | |
| | Singapore | 71(q) | | |
| | China | 74(t) | | |
| | Ohter | 7A(z) | | |
| Repair Serial No. | A serial No. is assigned automatically and written | | | |

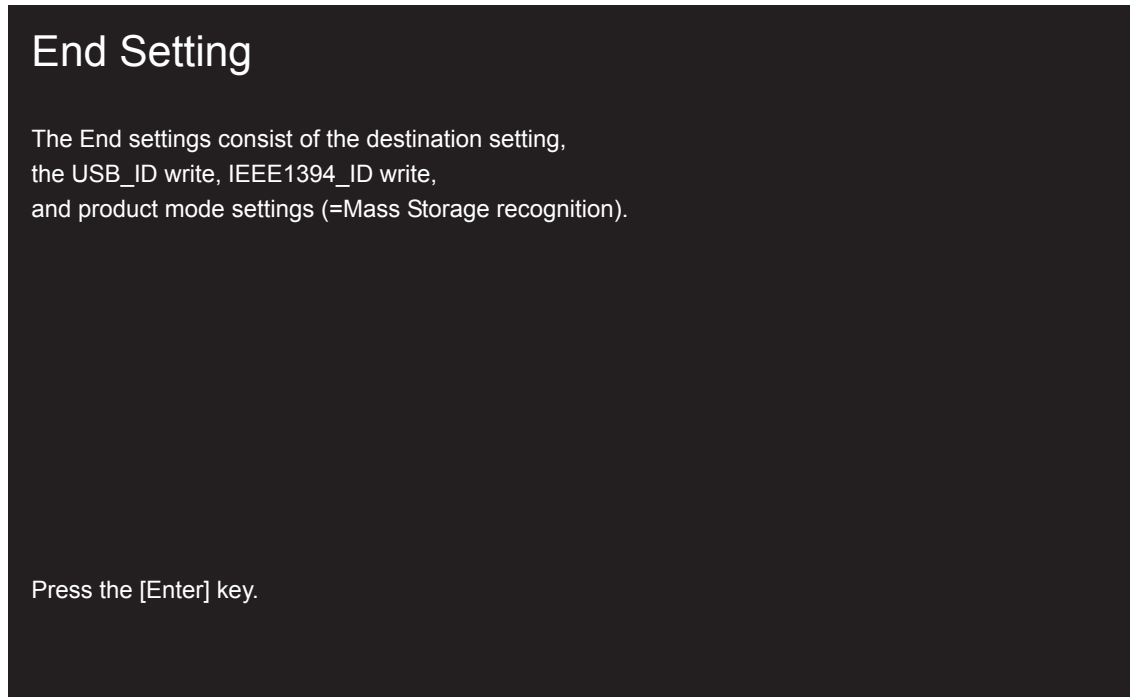
<Step 1>

Select [F12] End Setting on the [Adjustment Items Select] screen.

—> The [End Setting Description] screen appears.

<Step 2>

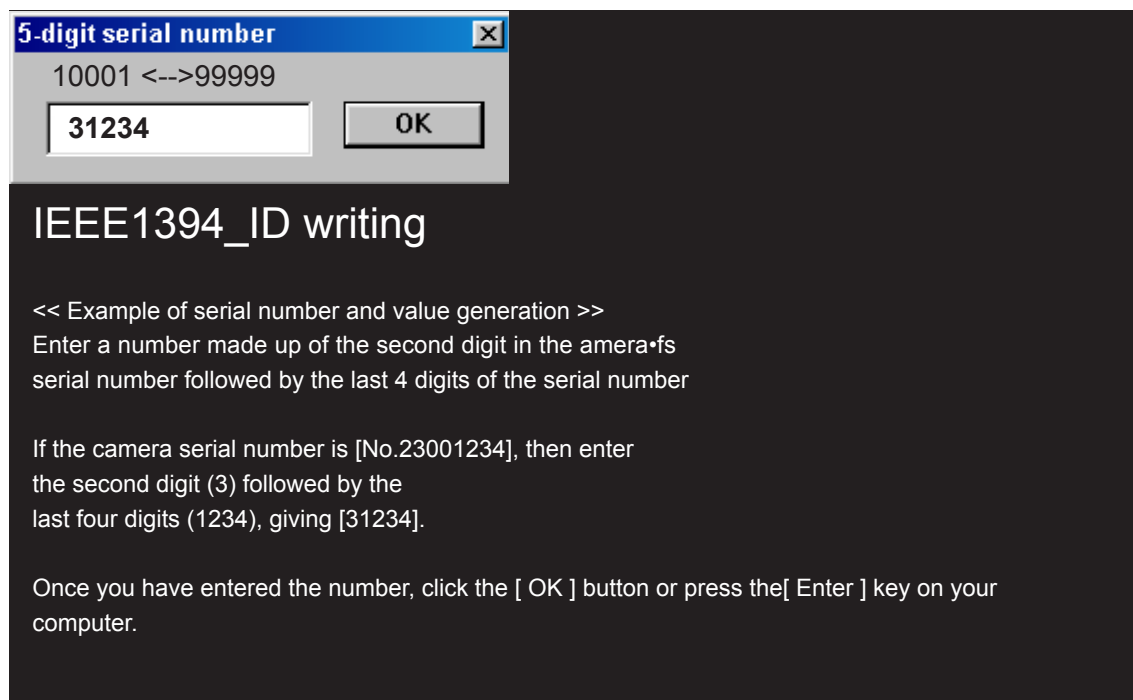
Run the adjustment in accordance with the instructions on the screen.



<Fig. 4-14-1>

—> The [IEEE1394_ID] screen appears.

<Step 3>



<Fig. 4-14-2>

Enter a 5-digit serial number in the serial number input dialog box as directed by the instructions in the "Enter IEEE_ID serial number" window.

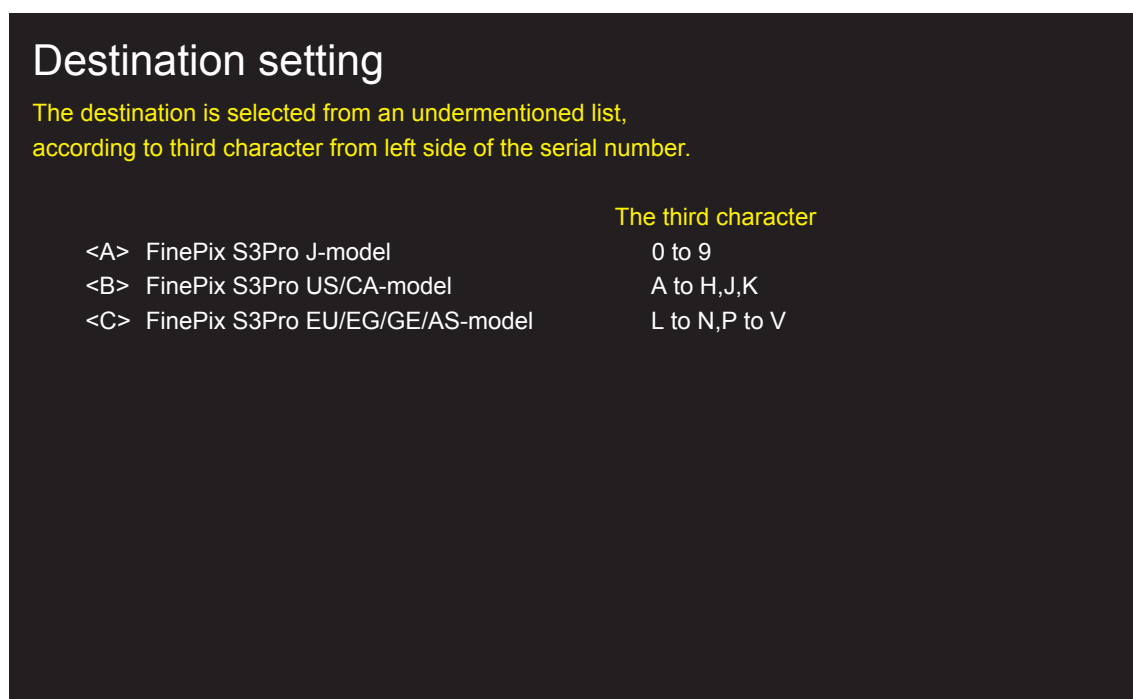
[Example of serial number and value generation]

Enter a number made up of the second digit in the camera's serial number followed by the last 4 digits of the serial number. If the camera serial number is "No.23001234", then enter the second digit (3) followed by the last four digits (1234), giving "31234".

Once you have entered the number, click the [OK] button or press the [Enter] key on your computer.

—> The [Destination Setting] screen appears.

<Step 4>



<Fig. 4-14-3>

<Note>

This example assumes that US-Model has been selected. The following screen therefore appears.

—> The [US-Model selected] screen appears.

<Step 5>

Destination setting

The destination is selected from an undermentioned list, according to third character from left side of the serial number.

| | The third character |
|-------------------------------------|---------------------|
| <A> FinePix S3Pro J-model | 0 to 9 |
| FinePix S3Pro US/CA-model | A to H,J,K |
| <C> FinePix S3Pro EU/EG/GE/AS-model | L to N,P to V |

Selected FinePix S3Pro US/CA-model.

Press the [Enter] key!

<Fig. 4-14-4>

—> The [USB_ID Writing] screen appears.

<Step 6>

USB_ID writing

Repair site ID input menu

The repair site is selected from an undermentioned list.

| | |
|------------------|-----------------|
| <A> SAPPORO SS | <M> BRITAIN |
| SENDAI SS | <N> GERMANY |
| <C> TOKYO SS | <O> FRANCE |
| <D> NAGOYA SS | <P> SPAIN |
| <E> OSAKA SS | <Q> ITALY |
| <F> HIROSHIMA SS | <R> NETHERLANDS |
| <G> FUKUOKA SS | <S> BELGIUM |
| <H> USA | <T> SWEDEN |
| <I> CANADA | <U> SWITZERLAND |
| <J> HAWAII | <V> NORWAY |
| <K> TAIWAN | <W> FINLAND |
| | <X> SINGAPORE |
| <L> CHINA | <Z> OTHERS |

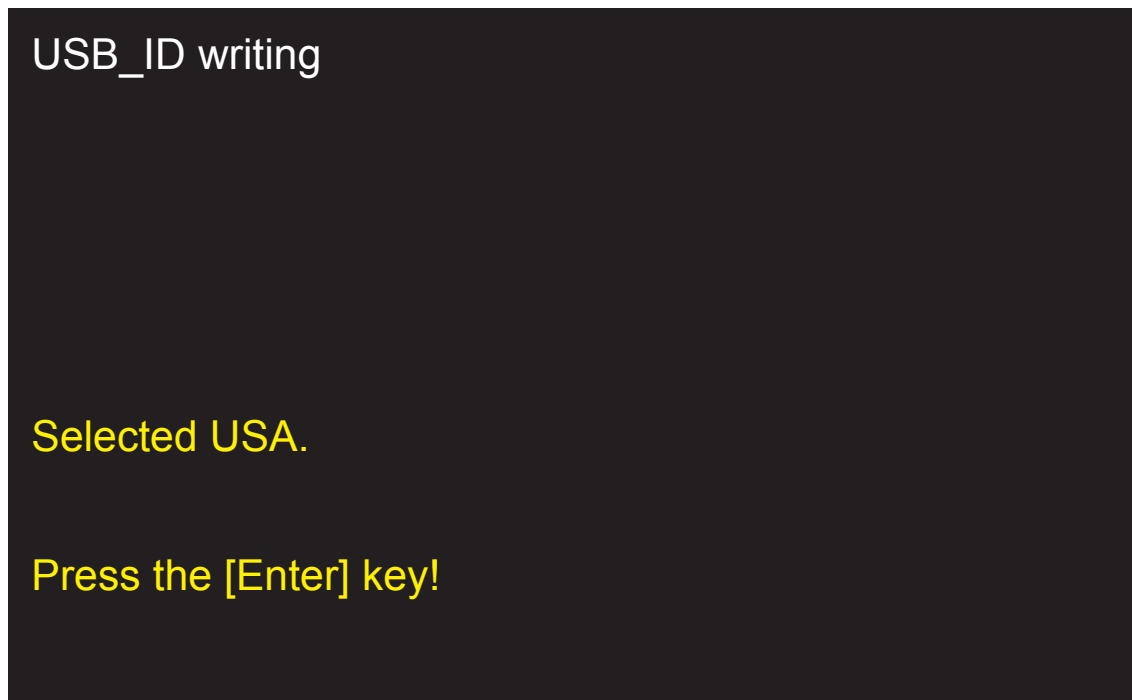
<Fig. 4-14-5>

<Note>

This example assumes that <H>USA has been selected. The following screen therefore appears.

—> The [USA_ID USA] screen appears.

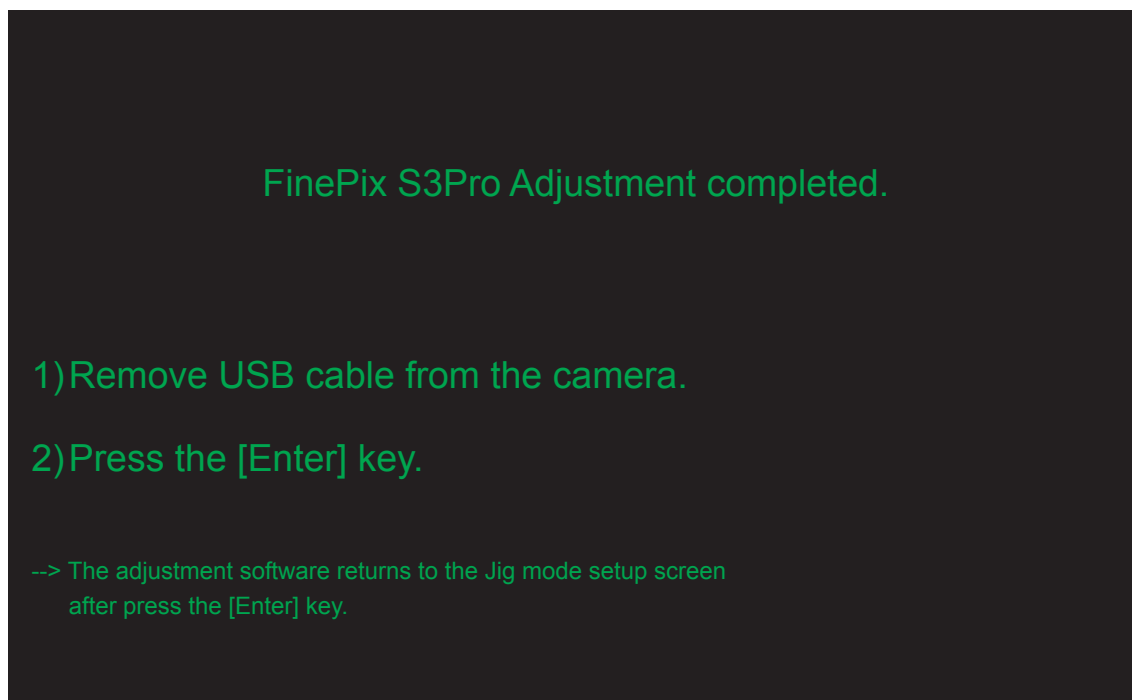
<Step 7>



<Fig. 4-14-6>

—> The [FinePix S3Pro Adjustment End] screen appears.

<Step 8>



<Fig. 4-14-7>

--> The display returns to the [Jig Mode Setup Screen] after pressing the [Enter] key on the computer.

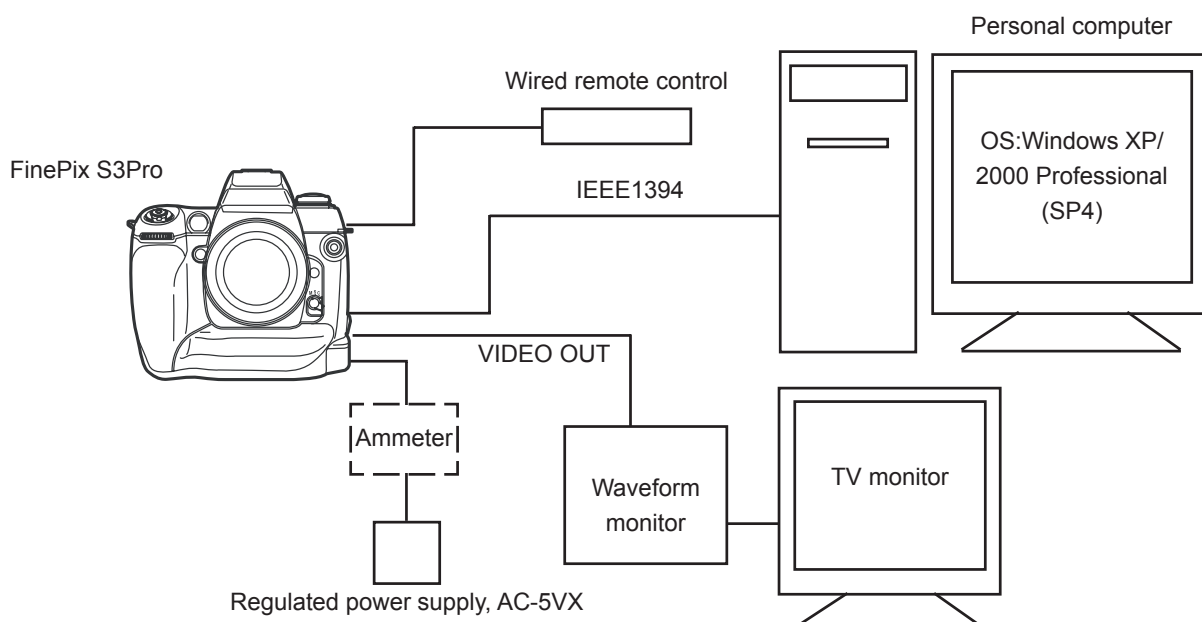
--> End on the adjustment software menu bar in the [Jig Mode Setup Screen] to terminate the adjustment software.

5. Inspection

5-1. Measuring Instruments and Jigs Used for Inspection

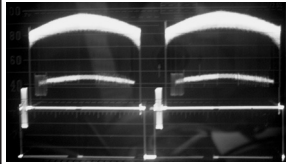
| Measuring instrument | Remarks |
|---------------------------------|--|
| TV monitor | NTSC TV monitor, minimum resolution 600 lines |
| Power supply | AC adapter (eg AC-5VX), Regulated power supply |
| Pattern box | PTB450 or equivalent |
| Waveform monitor | LEADER: 5870 or equivalent |
| Digital voltmeter | For general use |
| Luminance meter | LS-110 (KONICA MINOLTA) or equivalent |
| Color thermometer | Color Meter IIIF (KONICA MINOLTA) or equivalent |
| Ammeter | For general use (able to measure up to 1mA) |
| Replacement Lens for Inspection | Common with adjustment jig: ZJ00396-100 |
| Power cable jig | Common with adjustment jig: ZJ00213-100 |
| Grey chart | Common with adjustment jig: ZJ00254-100 |
| LB140 filter | Common with adjustment jig: ZJ00006-100 |
| High-resolution chart | Common with FinePixS1Pro, FinePix4700Z: ZJ00398-100 |
| Wired remote control | Commercial item (Nikon MC-30) |
| S3Pro Battery jig | Common with adjustment jig : ZJ00863-100 |
| Camera shooting software | HS-V2 Ver3.0 (Fujifilm) *Version for S3Pro *For Windows2000 Pro (SP4)/XP |

5-2. Connection of Measuring Instruments for Inspection



5-3. Inspection and Settings at Shipment

| No. | Item | Mode | Preparations for adjustment and measurement | Adjustment and measurement method | Measuring instrument | Measurement point |
|-----|---|--------------------------|---|---|--------------------------------|--|
| 1 | Visual check | | Visual check of camera. | <ul style="list-style-type: none"> No significant dents in body. Click sound of all switches, and operation of sliders, normal. No significant foreign matter, or cloudiness, in viewfinder. Flash mechanism opens and closes smoothly. | | |
| 2 | Power switch check Power supply confirmation from DSC side to camera | P Mode | (1) Insert the Jig cable in DC_JACK. (2) Set power supply voltage. (3) Install the lens for the inspection. (4) Insert the xD picture card which can be recorded. (5) Thing that display by which date setting is urged appears. (6) Push the BACK button. (7) Turn on "Illuminator button" and turn off. | (2) 5.00+/-0.5V (5) Confirm there is no garbage no dirt.(Top display panel, Rear display panel, LCD monitor) (7) Thing which lights LED back light of Top display panel and Rear display panel, and is turned off. | Visual | Top display panel LCD monitor Rear display panel |
| 3 | IEEE1394 device recognition confirmation | P Mode | (1) Connect the IEEE1394 cable with PC. (2) Stop the device connection of PC, and pull out the IEEE1394 cable from the camera. (3) Switch power OFF. | (1) Thing that "DSC" is displayed in Rear display panel, and camera is recognized as external drive on PC. (2) The any error does not appear in PC. (3) The any "DSC" is displayed in Rear display panel, and camera is recognized as external drive on PC. | PC Visual IEEE1394 cable | Rear display panel |
| 4 | Flash Photograph check image | A mode Focus "M" mode | (1) Turn on the Power_on of the main body. (2) Change to A mode. (3) Set to ISO sensitivity 200. (4) Set aperture to F5.6. (5) Set number of recorded pixels to [6M][STD] (others to defaults). (6) Set as for flash adjustment. (7) Take photograph. | (6) See Setup for Flash Adjustment diagram. (7) Recorded on xD picture card. | Gray chart | |

| No. | Item | Mode | Preparations for adjustment and measurement | Adjustment and measurement method | Measuring instrument | Measurement point |
|-----|---|-----------|--|---|---|-------------------|
| 5 | Long time exposure Photograph check image | M mode | (1) Do the lens cap. (=Shade.) (2) Change to A mode. (3) Set to ISO sensitivity 1600. (4) Set aperture to F5.6. (5) Adjust the shutter speed to ten seconds. (6) Set to the AF mode M. (7) Take photograph. | (7) Recorded on xD picture card. | | Lens cap |
| 6 | Remote release socket (10-pin terminal) confirmation | P mode | (1) Connect a wired remote controller with 10-pin terminal. (2) The power on. (3) Photograph by a remote controller. | (3) Recorded on xD picture card. | wired remote control | |
| 7 | Confirmation of operation of External flash. | P Mode | (1) Change to P Mode. (2) Set the tester's + probe on the flash hot shoe X contacts and the tester's - probe on the flash hot shoe GND contact. (The resistance value at this time should be = inf) Pop down the flash and take a photograph. (3) Take photograph. | (3) Thing which does decrease change by resistance momentarily, and returns to origin immediately. | | tester |
| 8 | Slot cover detection confirmation | | (1) Turn on the Power_on of the main body. (2) Open and tighten the slot cover. | (2) The any Rear display panel disappears. | Visual | |
| 9 | Check playback image (Flash / Exposure for a long time) | PLAY Mode | (1) Place the xD picture card which contains the photograph recorded in STEP4 and 5 in image check camera. (2) The PLAY button is pushed. (3) Playback flash check photographic image. (4) Playback Exposure for a long time photographic image. | (3) Playback image within 55 [IRE]+22, -19 [IRE] on waveform monitor display. (4) That is, no white floating in image. | TV monitor Waveform monitor Recorded xD picture card (3) Waveform monitor  (4) TV monitor Visual | |
| 10 | Confirming the operation of alkaline battery | | (1) The DC_IN cable is pulled out, and the alkaline battery (4) is put in BATT CART. (2) The power on. | (2)The any which LCD monitor displays. | | LCD monitor |

| No. | Item | Mode | Preparations for adjustment and measurement | Adjustment and measurement method | Measuring instrument | Measurement point |
|-----|---|-----------|---|--|---|-------------------|
| 11 | Delete mode check | Delete | (1) S3Pro Battery jig is inserted. (2) Reproduce the recording picture image, and push the "MENU" key. (3) Select "FORMAT", and push the "OK" key. (4) Select "MENU/OK", and push the "OK" key. | (1) 6.00V \pm 0.1V (2) Playback screen disappears. (3) Thing that "FORMAT OK?" is displayed. (4) Thing that "NO IMAGES" is displayed in LCD monitor. | Regulated power supply S3Pro Battery jig Recorded xD picture card | LCD monitor |
| 12 | Confirmation of operation of MicroDrive Battery down check (DSC) | PLAY Mode | (1) Replace xD picture card with the MicroDrive and push the PLAY button. (2) Set the voltage to 5.00V \pm 0.1V. (3) Lower the voltage to 4.48V\pm0.03V little by little. (PRE_END voltage) (4) Lower the voltage to 4.32V\pm0.03V little by little. (END voltage) | (1) The test image is played by the LCD monitor. (2) Thing of 1[A] or less current. (3) Thing that battery PRE-END display appears (4) The end mark is a thing that the blinking display is done in Rear display panel. | LCD monitor Recorded MicroDrive S3Pro Battery jig | LCD monitor |
| 13 | Leakage current check | Power OFF | (1) Switch power OFF. | (1) Leakage current maximum of 500[uA] . | Regulated power supply S3Pro Battery jig | |

| No. | Item | Mode | Preparations for adjustment and measurement | Adjustment and measurement method | Measuring instrument | Measurement point |
|-----|-------------------------------|-------------------------------|--|---|----------------------|-------------------|
| 14 | Settings at shipment | (note) Language is English | (1) Run Full Reset from Settings menu to return to defaults. (2) Defaults are as follows. Image display: OFF Color spaces: sRGB D-range: WIDE Auto rotate: ON Media: xD (ICON) Test shooting: ON Beep: LOW USB mode: Card Reader 1394 mode: Card Reader Frame NO.: CONT Lang: ENGLISH Video System NTSC: US/CA/JP PAL: EU/EG/GE/AS Date/time: Not Set (3) Mode dial: P * Setting at M mode: Shutter speed: 1/125 Aperture: F5.6 * Setting at A mode: Aperture: F5.6 (4) Focus mode: S (5) AE-L/AF-L: Multi pattern (6) ISO sensitivity: 200 (7) Diopter adjustment knob: bottom (8) Power switch: Turning off (9) 4-direction switch: Lock (10) Inspection battery/ inspection SSFDC not in camera. (11) No contamination on LCD/Optical finder. (12) Clean exterior of camera. | (2) The camera may be set to the mode set at shipment from the factory with the following procedure. 1. Connect the camera to the computer with the USB cable. 2. Open the slot cover. 3. Switch power supply ON (AC adapter may also be used). 4. Switch power ON while pressing the back button. 5. Switch the power supply OFF with the camera POWER button. * The "FRAME NO." setting is "CONT" in default (all resets). * Turn off the camera after it sets it to "RENEW" to clear "FRAME NO.". | | |
| | Settings at packaging upgrade | | (13) Upgrade packaging in accordance with parts list details. | | | |

5-4. Resolution Checking

<Step 1>

Refer to the settings for resolution checking in the figure at right and set up the camera and the high-resolution chart. Use a light source to illuminate the high-resolution chart so that the surface brightness of the chart is 9.0 to 11.5 EV.

<Step 2>

Prepare the following:

- (1) Insert a formatted 32 MB xD picture card into the camera.
- (2) Supply power to the camera. (Batteries can be used.)
- (3) Set the camera to "A" mode and switch it on.
- (4) Set the camera on a tripod and point it directly at the high-resolution chart (set at 90° horizontally and vertically relative to the chart).
- (5) Position the chart so that it is 1200 ± 5 mm from the camera's F mount.

<Step 3>

Make the following changes to the default photography mode settings:

- (1) Select A mode.
- (2) Select "Fine" and "12M" (4256 x 2848) mode.
- (3) Set the flash to OFF.
- (4) Set the aperture to F4.0.
- (5) Select ISO 200.
- (6) Set the focusing mode to "M".
- (7) Execute the "LIVE IMAGE :ON". And, adjust the position of the camera so that the chart displayed in the LCD monitor may become the same angle as "Fig.5-4-2".

<Step 4>

After you have completed the settings in steps 1 to 3 above, Execute [LIVE IMAGE :ON] and execute [ENLARGE]. Adjust a focus ring so that a chart looks sharp, and press the shutter button taking care to avoid any camera shake. --> A resolution checking image (Fig. 5-4-2) is recorded.

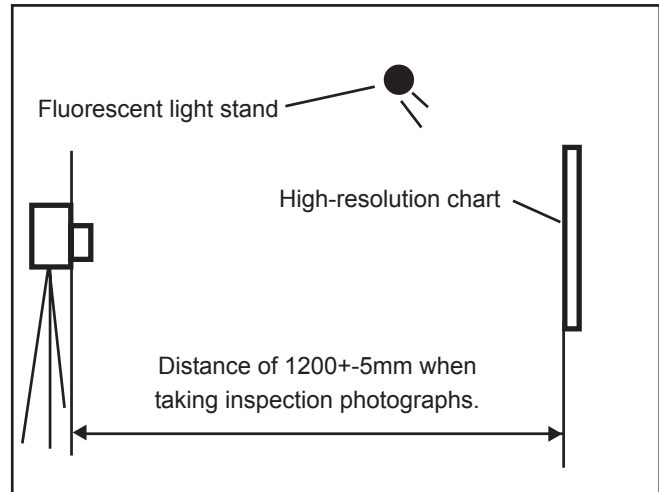
<Step 5>

Download the resolution checking image to your computer.

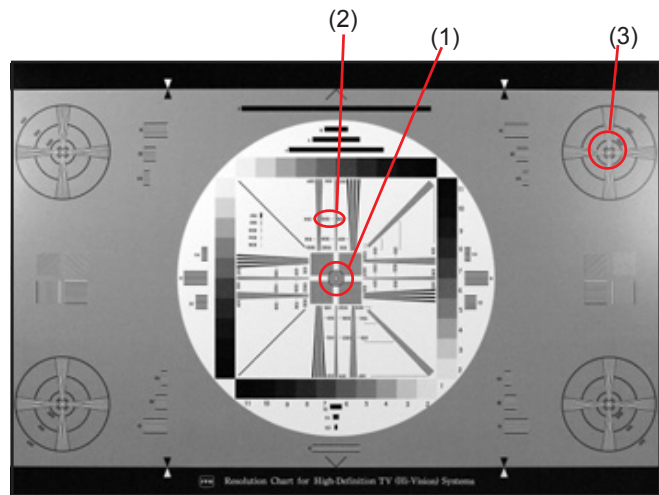
<Step 6>

Resolution checking image enlargement procedure (Fig. 5-4-2 (2)).

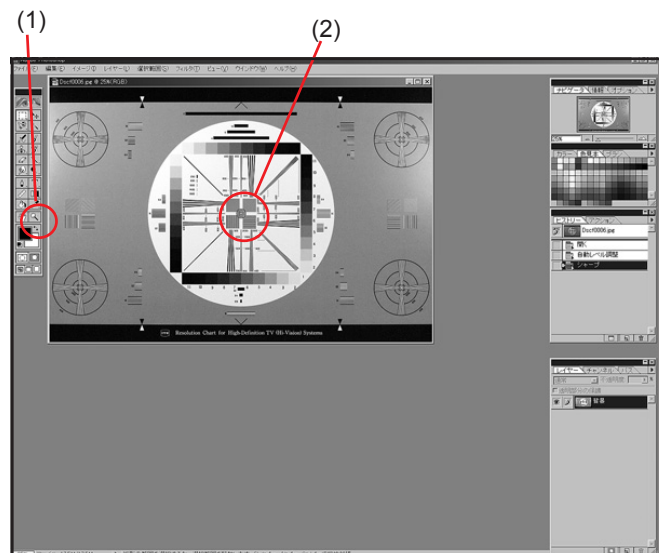
- (1) Open the image in Photoshop 5.0.
- (2) Display the image as shown in Fig. 5-4-3. The procedure varies depending on your software settings.
- (3) Use the zooming tool in the tool box (Fig. 5-4-3 (1)) to enlarge the area shown in Fig. 5-4-2 (2) to 300%.
- (4) When you enlarge the image, the centrally enlarged image (Fig. 5-4-4) appears.



<Fig. 5-4-1> Setting for Inspecting Resolution



<Fig. 5-4-2> Resolution Check Image



<Fig. 5-4-3> Enlargement Using Photoshop

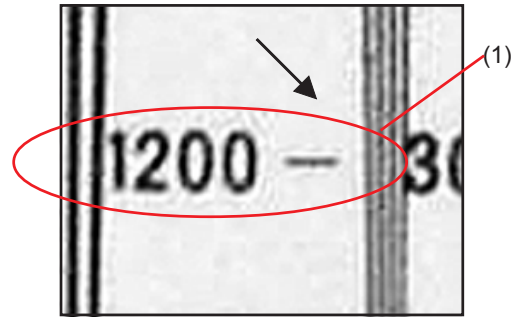
The centrally enlarged image (Fig. 5-4-4 (1)) is normal if a resolution of 1200 lines can be confirmed.

Use the same procedure to check the resolution of peripherally enlarged versions (Fig. 5-4-5 (1)) of the resolution checking image (Fig. 5-4-2 (3)). The peripherally enlarged image is normal if a resolution of 1000 lines can be confirmed.

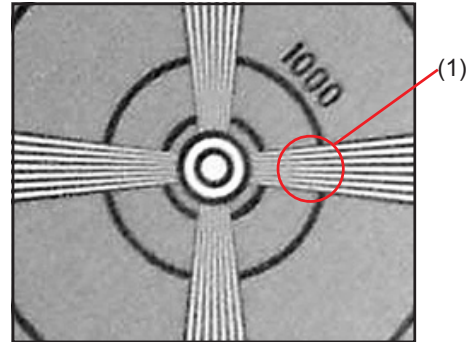
| Check location | Service resolution value |
|----------------------------------|--------------------------|
| Center (horizontal/vertical) | 1200 |
| Peripheral (horizontal/vertical) | 1000 |

[Note!]

The resolution values given in this description are not the original "FinePix S3Pro" resolution values (TV resolution). The values given are according to the high-resolution chart set in the jig. Accordingly, the values shown in the above table are for servicing purposes and should be confirmed as being for use in in-house inspections.



<Fig. 5-4-4> Enlargement to 300% (Center)



<Fig. 5-4-5> Enlargement to 300% (Peripheral)

5-5. CCD Cleaning and Inspection Procedures

This camera is fitted with a CCD as its imaging (pickup) element. The CCD is located behind the shutter. Dust or other soiling may stick to the CCD and, depending on the photography settings and the type of subject, may be visible in photographed images if it is not cleaned off. If this occurs, the CCD needs to be cleaned.

[Note]

Always use the AC power adapter when performing this task. Loss of power during cleaning could cause the mirror to drop or the shutter to close, risking damage to the camera.

5-5-1. CCD Cleaning Using a Visual Inspection for Dusting

<Step 1>

Check that the camera is switched off and remove the lithium batteries.

<Step 2>

Connect the AC power adapter to the camera.

<Step 3>

Remove the interchangeable lens from the camera.

<Step 4>

Set the camera's exposure mode dial to "M".

<Step 5>

Hold down the release mode switch lock release button and set the release mode switch to "S1 Frame".

<Step 6>

Hold down the Synchro mode and Illuminator buttons and switch the camera on.

<Step 7>

When you press the shutter button, the mirror stays up and the shutter stays open.

<Step 8>

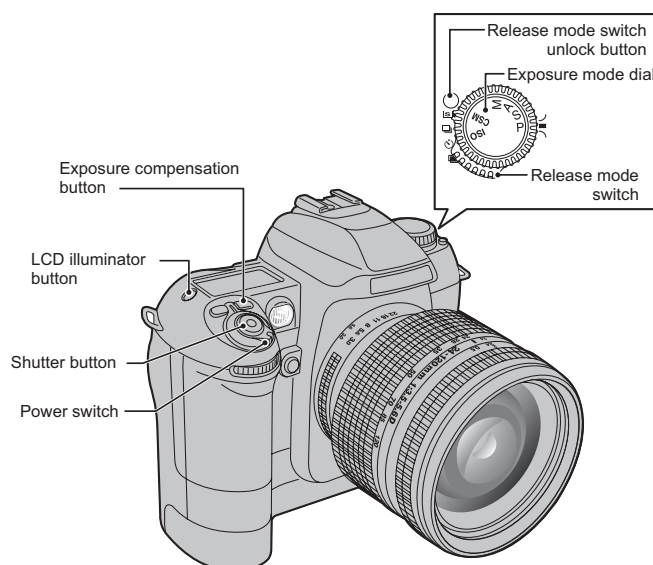
Hold the camera so that light shines on the CCD (OLPF) and check for soiling on the CCD surface either visually or using a stereoscopic microscope. If soiling is found, use a blower to remove it ([Note]).

If the soiling cannot be removed using the blower, wipe the CCD with a lens cleaner or lint-free cloth and EE cleaner or ethanol (95% or higher).

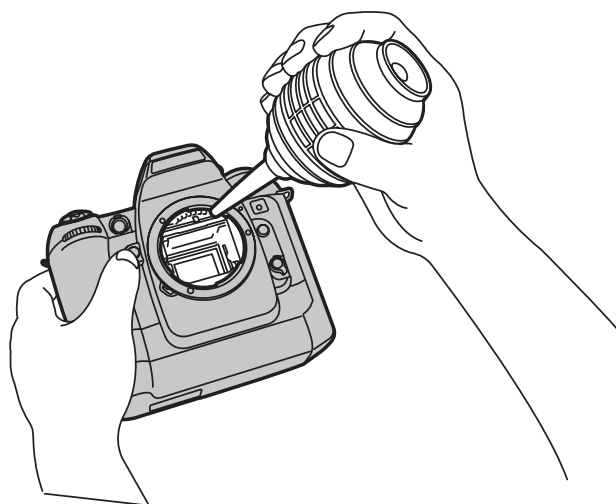
Do not use a blower with a brush attached. Using a blower-brush to clean the CCD can scratch the CCD surface.

[Note]

When using a lens cleaner to wipe the CCD, note that any metallic residue on the CCD (OLPF) surface will cause scratches in the CCD surface during cleaning.



<Fig. 5-5-1> Various button charts



<Fig. 5-5-2> Appearance of blower cleaning

5-5-2. CCD Cleaning Using Test Photography to Detect Dusting

<Step 1>

Supply power to the camera. (AC power adapter or batteries can be used.)

<step 2>

Mount an inspection lens on the camera and set the camera up as described below.

[Camera settings]

- (1) Set the camera's exposure mode dial to "A".
- (2) Set the focusing ring on the lens to infinity (∞).
- (3) Set the lens aperture to the smallest aperture size.
(If this is not set, the aperture cannot be specified on the camera.)
Set the camera aperture to F16.
- (4) Set the number of recorded pixels to 3024x 1616 (6M).
- (5) Set the compression rate to Normal.
- (6) Set the ISO sensitivity to 200
- (7) Set the white balance to Incandescent lamp.

<Step 3>

Take a picture of the white screen shown at right and record the image on an xD picture card.

--> A CCD dust check image (Fig. 5-5-4) is recorded.

<Step 4>

Open the image on your computer using Photoshop and measure the size of any soiling.

The selection tool for the enlarged CCD dusting check image (Fig. 5-5-5) is useful for checking individual pixels.

<Step 5>

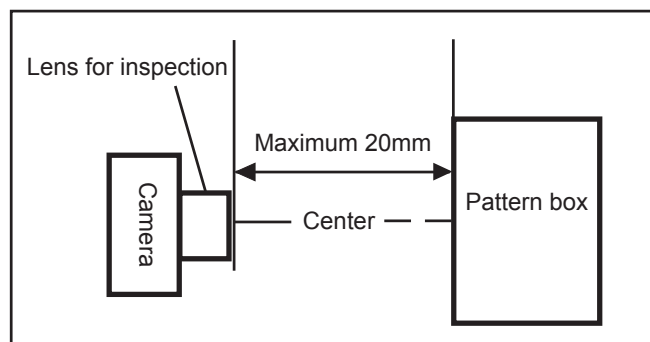
If the dusting is 12 pixels or larger, it can be regarded as CCD (OLPF) dusting and the CCD should be cleaned again. (At shipment from the factory, soiling smaller than 12 pixels is regarded as OK.)

[Note]

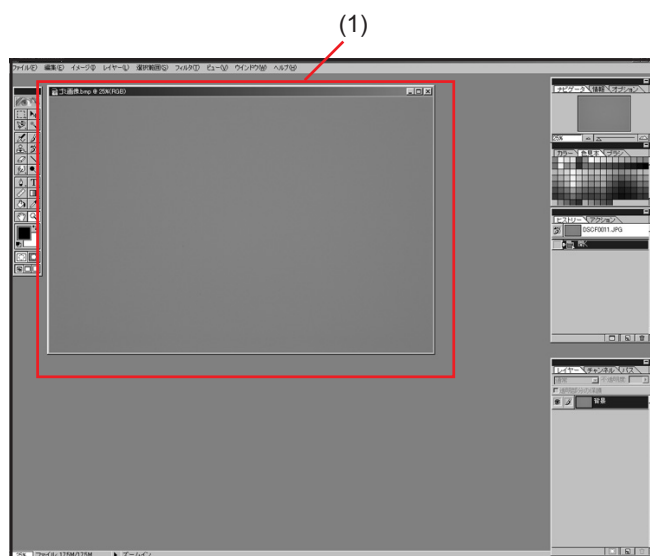
In a normal environment, there will be considerable dusting of the CCD (OLPF) surface. Consequently, there is a possibility that the CCD of a cleaned camera will again become dusted when used by the customer and a request for re-cleaning or some other claim may be made.

Accordingly, to reduce the likelihood of such returns or claims to a minimum, images should be printed before and after cleaning (*) so that these can be passed on to the customer if necessary.

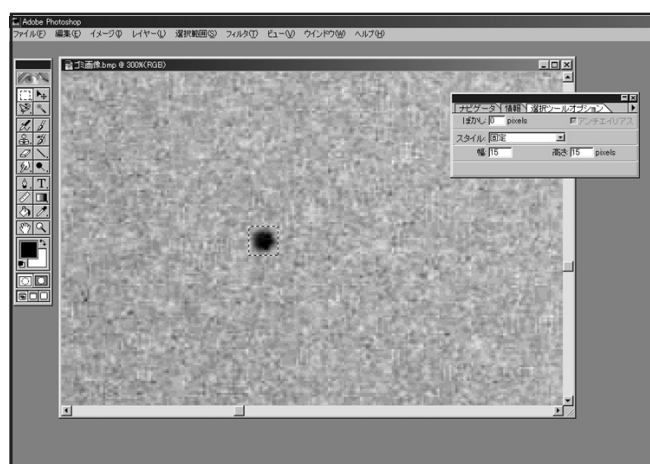
- (*)1 Take a picture before and after cleaning and print the images on a printer such as a consumer-model TA printer. (dusting can readily be seen even on prints produced by a TA printer.)



<Fig. 5-5-3> Environment for CCD dust inspection



<Fig. 5-5-4> CCD dust confirmation image



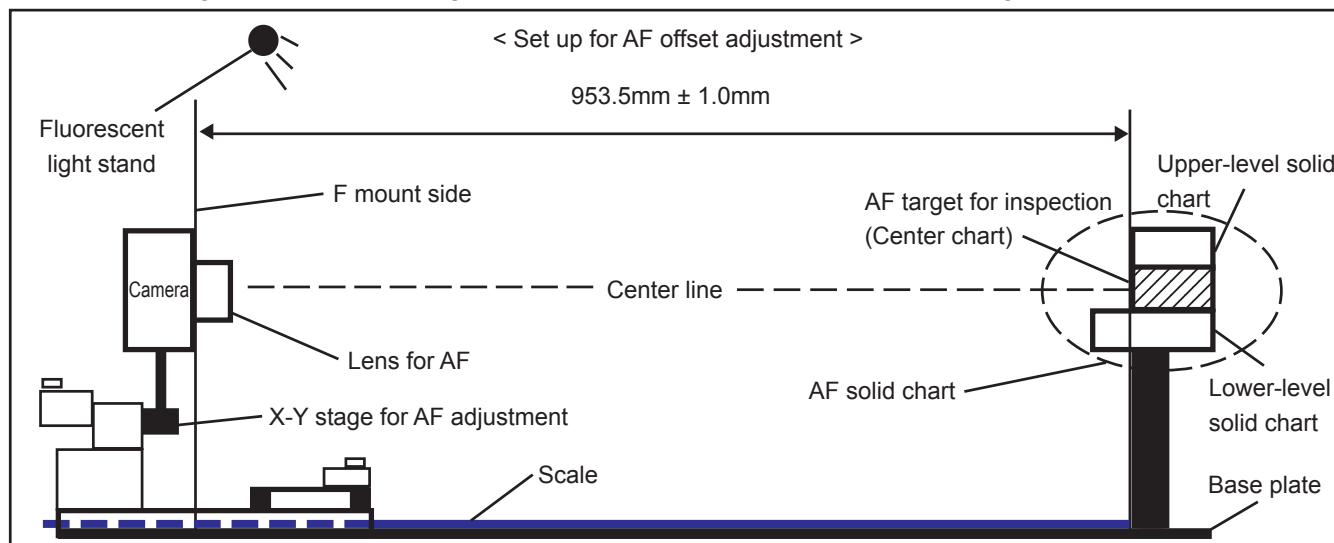
<Fig. 5-5-5> CCD dust expansion confirmation image

5-6. AF Checking

5-6-1. Measuring equipment and tools used for AF checking

| Measuring instrument | Remarks |
|--------------------------------------|--|
| Power supply | AC adapter (eg AC-5VX), Regulated power supply |
| AF inspection lens of FinePix S2 Pro | ZJ00654-100 |
| AF target for inspection | ZJ00626-100 |
| X-Y stage for AF adjustment | FinePixM603 and commonness: ZJ00611-100 |
| Power cable jig | Common with adjustment jig: ZJ00213-100 |
| Scale (1000mm) | Goods on the market |

5-6-2. Settings for the measuring equipment and tools used for AF checking



<Step 1>

Take out the camera stand for the AF Solid chart and set the X-Y stage for AF adjustment on the base plate.

<Step 2>

Mount the camera on the X-Y stage for AF adjustment.

<Step 3>

Remove the hexagonal bolt in the top of the AF solid chart block and remove the upper-level solid chart.

<Step 4>

Align the AF intermediate chart surface horizontally and vertically with the "0" Emarkings on the lower-level and upper-level solid charts and then tighten the hexagonal bolt (long type) provided with the AF intermediate chart.

<Step 5>

Check that there is no tilt or instability in the AF solid chart block.

<Step 6>

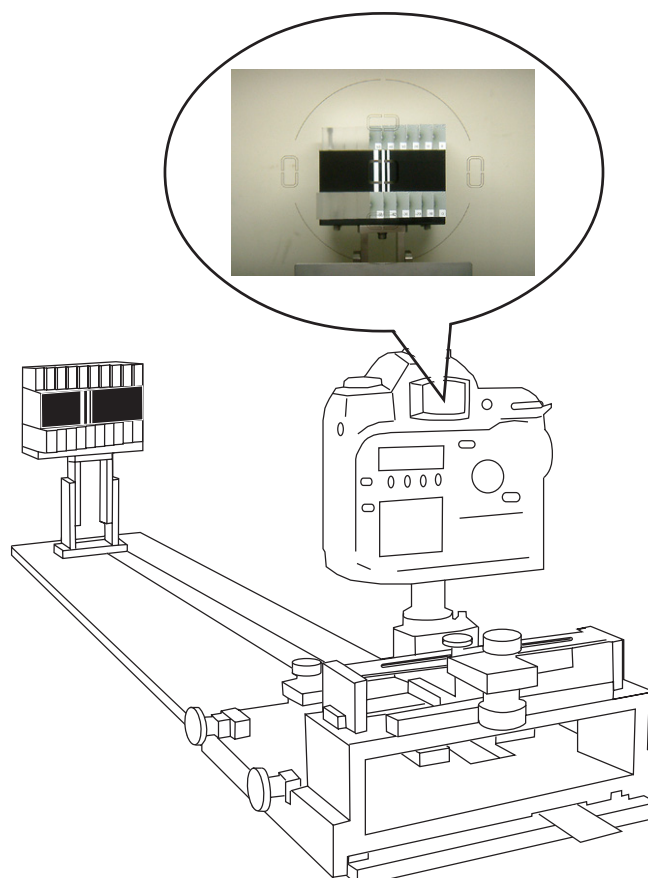
Set the scale on the base plate and adjust the position so that the distance between the AF intermediate chart and the F mount on the camera is 953.5 \pm 1.0 mm.

<Step 7>

Attach the checking lens on the camera and switch the camera on.

<Step 8>

Adjust the X-Y stage so that the center of the AF intermediate chart appears in the AF target (center) in the viewfinder.



5-6-3. AF testing procedure

★ Revised: 27. Dec. 2004

<Step 1>

Select the settings listed below on the camera:

* Perform a 2-button reset.

- (1) Select A mode.
- (2) Do not pop up the flash.
- (3) Set the focusing mode to "S".
- (4) Select Camera Shooting mode.
- (5) Select [Exif-Jpeg (FINE)] [12M (4256 x 2848)] mode.
- (6) Set the aperture to F1.4.
- (7) Select ISO 200.
- (8) Connect the camera to a PC using the IEEE 1394 cable.
- (9) Switch the camera on.

--> The Hyper-Utility2 (Ver3.0) software starts up.

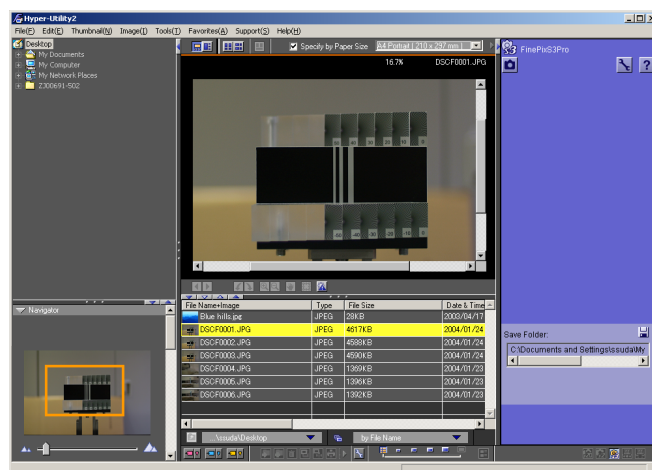
* Refer to the manual of Hyper-Utility2 for the start procedure.

<Step 2>

Hyper-Utility2 (Ver3.0) settings.

- (1) Create a folder to be used for saving files and transfer the files.
- (2) Select "Control FinePix S3Pro" from "Tools (T)" of the toolbar and change to the mode of "Camera shooting".

--> The camera is now ready to shoot.



<Fig. 5-6-1> Screen of Hyper-Utility2 (Ver3.0)

<Step 3>

Manually set the focusing ring on the checking lens to the nearest distance and push the "Shutter button" of the camera.

--> A preview image is displayed and then transferred to the specified folder.

<Step 4>

Repeat step 3 three times.

--> 3 near-focus shots are saved.

<Step 5>

Manually set the focusing ring on the checking lens to INF (the furthest distance) and push the "Shutter button" of the camera.

--> A preview image is displayed and then transferred to the specified folder.

<Step 6>

Repeat step 5 3 times.

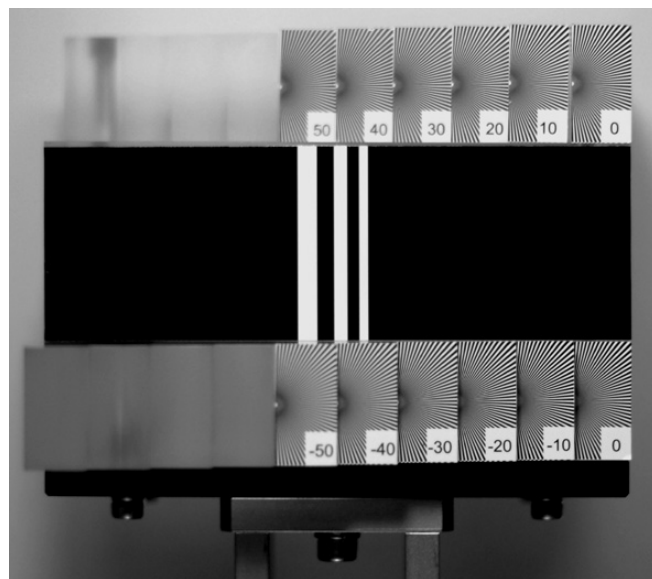
--> 3 far-focus shots are saved.

<Step 7>

Open the 6 shots taken above in Photoshop and note down the sections in each shot that are most clearly focused. Then calculate the average.

<Step 8>

If the average value for the focused sections as confirmed in step 7 is between -50 and 50, the AF performance for the camera is normal.



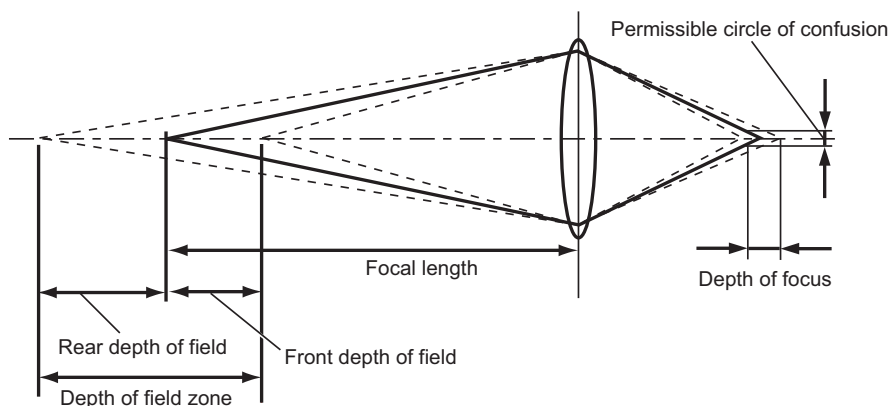
<Fig. 5-6-2> Photographic image sample

5-6-4. Cause identification procedure for focus-related problems

With the FinePix S3Pro, queries and complaints regarding focusing and auto focusing (AF) address a wide range of overlapping factors. These factors include the shallow depth of field for the subject due to the increased resolution of the CCD (the permissible circle of confusion (see figure below) is smaller than that for a conventional camera), the fact that digital images can be viewed enlarged on a PC, the differences in the way images are generated compared with the FinePixS1Pro, lens-related factors and problems that arise due to the way the camera is used. For this reason, methods for differentiating between these various factors are discussed here.

What is the “permissible circle of confusion” ?

A lens resolves the image of a subject located on the optical axis on the image plane. But we often see that subjects at a range of different distances from the camera, both nearer and further away than the focal distance, are also in focus. This is because when the degree of blurring in a subject is below a set amount, we perceive the subject as being in focus. This set amount is known as the permissible circle of confusion. The range on either side of the image plane within which the amount of blurring is smaller than the permissible circle of confusion is called the depth of focus. Similarly, the subject range for which the image is resolved within the depth of focus is called the depth of field. All subjects within the depth of field for a shot are photographed as if they were in focus.



<Cause identification procedure>

The basic causes underlying detected problems can be broadly grouped into 3 categories, as outlined below.

(1) Problems attributable to how the camera is used

- Resolution setting
 - > Can be resolved by selecting a high-quality mode (12M JPEG-Fine, RAW) in the resolution settings.
 - Sharpness setting
 - > Check the resolution problems in SOFT mode.
 - Diffraction when shots are taken using an excessively small aperture^{*1}.
 - > Check the F-stop setting and try taking the shot with an aperture that is slightly larger than the one causing the problem.
- ^{*1} Diffraction refers to the tendency of light to scatter due to its wave-like properties. By reducing the aperture size (stopping down), the proportion of the direct reflection light that is resolved directly onto the CCD surface decreases and the effects of diffraction become noticeable.

- The focusing performance for the focus target deteriorates slightly in all 4 directions (up, down, left and right) when compared with the center of the image because the AF sensors detect light horizontally.
 - > The central focus area should be used to focus the shot.
- ECamera shake
 - > The use of a tripod is recommended.
- Photographing subjects that are difficult to focus
 - > As described in the Owner's Manual, use manual focus for objects that are not suited to auto focusing.

(2) Problems attributable to faults in the FinePix S3Pro

- Problems in the Camera Body (AF function defects, body flange back defects, viewfinder matt screen offset, etc.)
 - > Perform AF checking and the Camera Body is repaired.

(3) Problems attributable to performance limitations or defects in the lens used

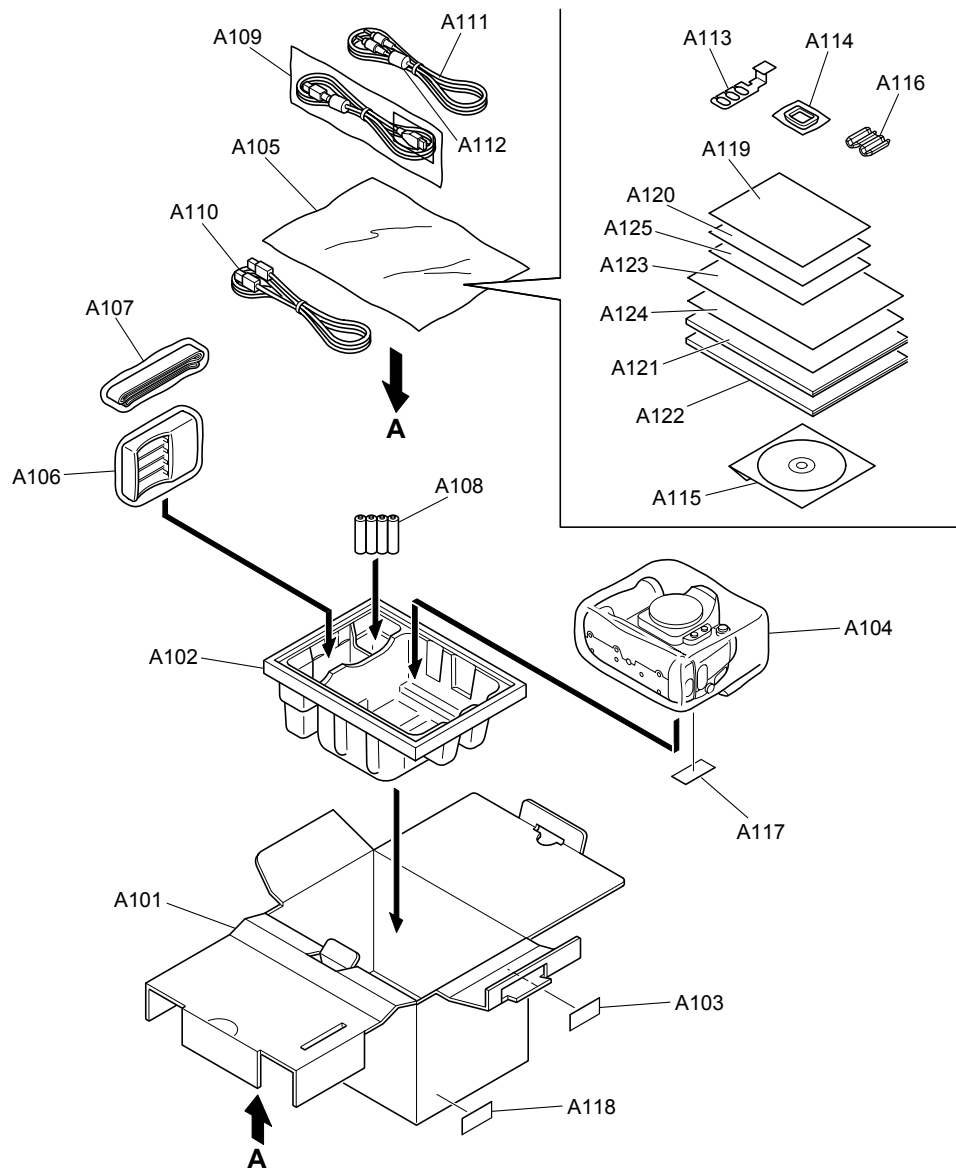
Using the checking lens as reference, determine whether the problem is with the lens or with the FinePix S3Pro.

- Lens AF malfunction (cannot be addressed by Fuji)
- Lens performance (cannot be addressed by Fuji)
- > Get the lens manufacturer to check the lens being used.

6. Parts List

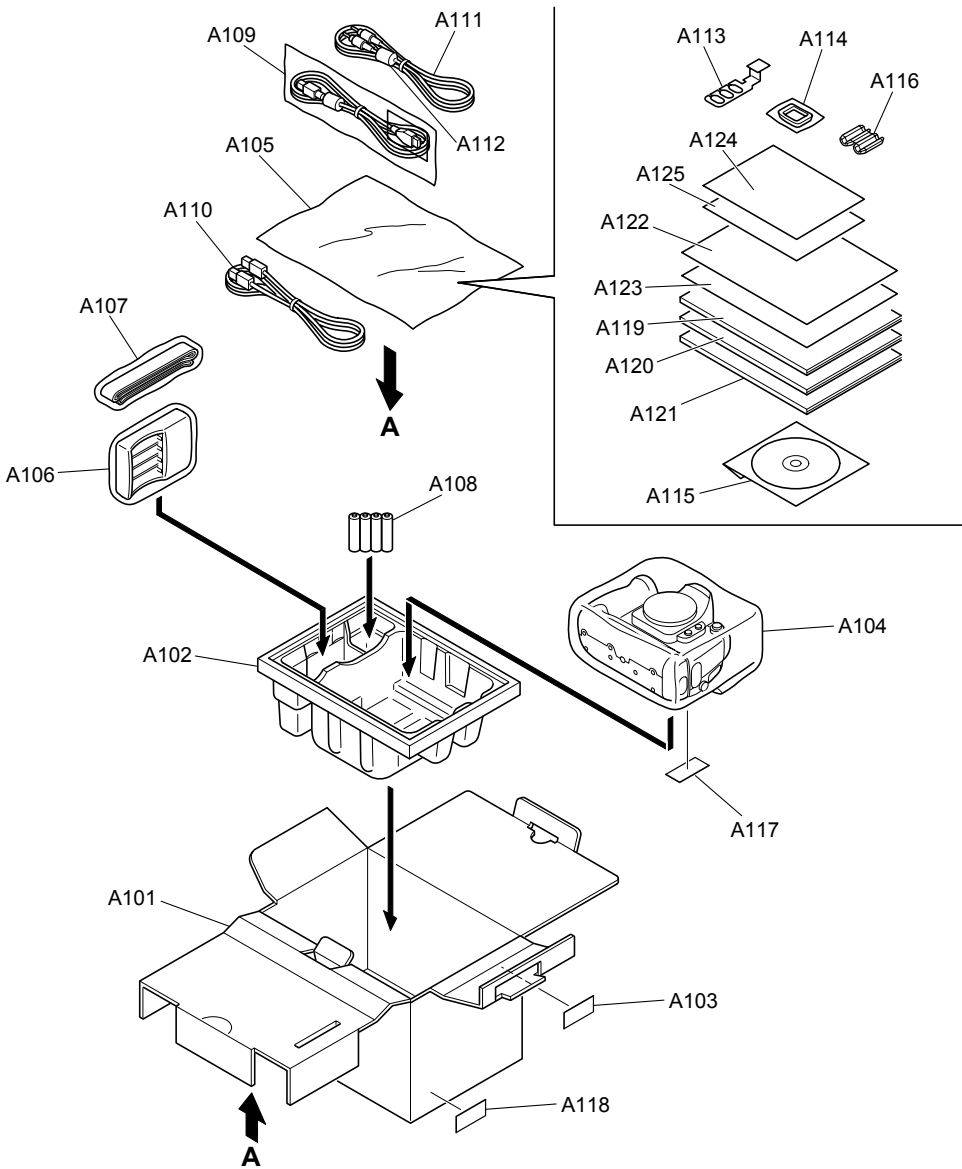
6-1. Packing and Accessories

6-1-1. US-model



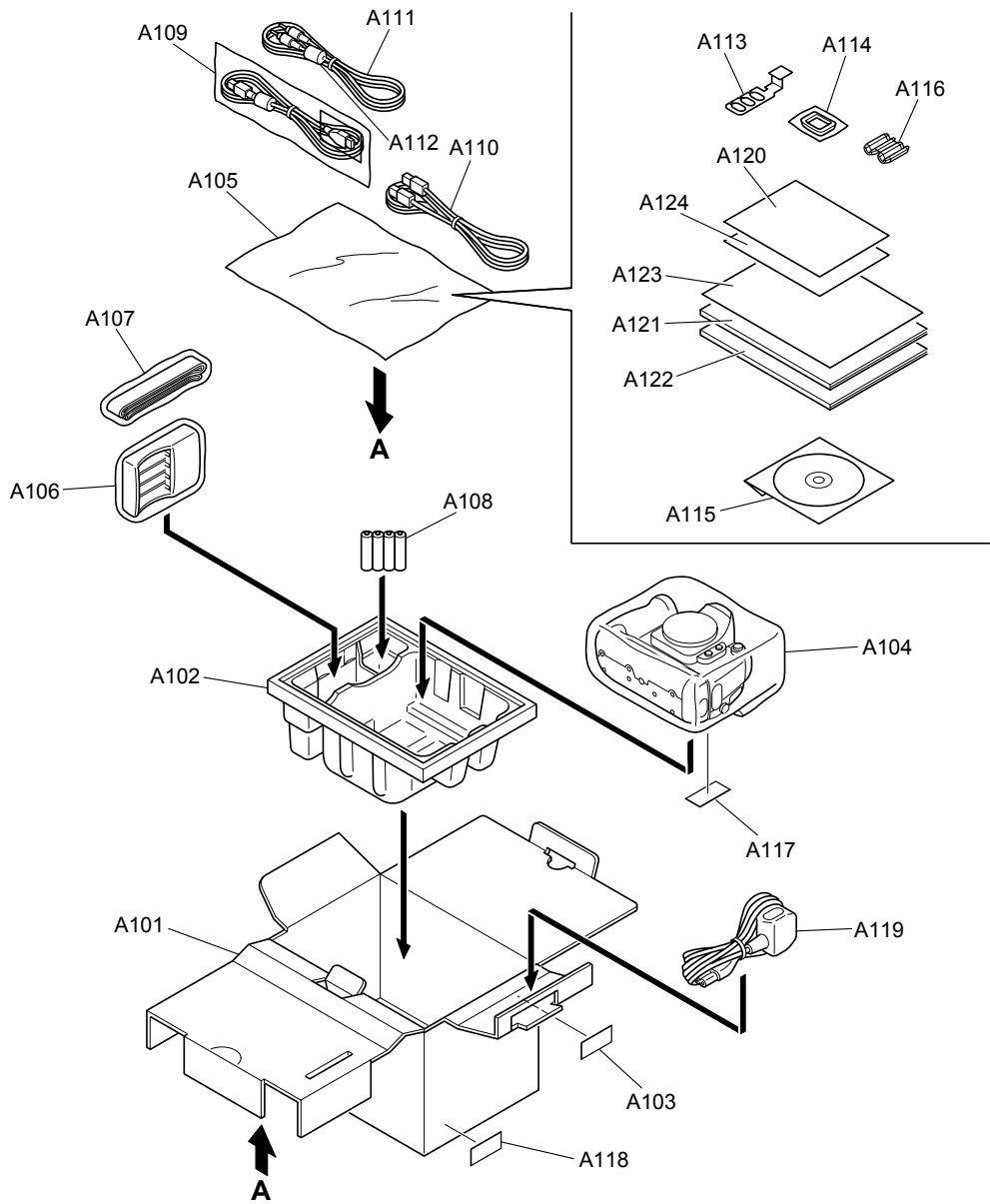
| Ref No. | Parts No. | Description | Comment | EL | Ref No. | Parts No. | Description | Comment | EL |
|---------|-------------|----------------------|------------------|----|---------|-------------|---------------------------|---------|----|
| A101 | FZ06042-100 | UNITARY BOX (W) | | N | A121 | BL00430-201 | OWNER'S MANUAL S3PRO(ENG) | | N |
| A102 | FZ06012-100 | SHEET MOLD | | N | A122 | BL00431-200 | I/F MANUAL S3PRO(W) | | N |
| A103 | BB12943-100 | BAR CODE LABEL BLANK | | N | A123 | BL00432-200 | QUICKMANUAL S3PRO(ENG) | | N |
| A104 | AZF0000-321 | HDPE BAG NO.12 | | N | A124 | BL00432-500 | QUICKMANUAL S3PRO(SPA) | | N |
| A105 | AZF0000-101 | LDPE BAG NO.10 | | N | A125 | BL00471-200 | CAUTION E S3PRO | | N |
| A106 | FZ06043-100 | BATTERY CHARGER | | = | | | | | |
| A107 | FZ06044-100 | SHOULDER BELT | | N | | | | | |
| A108 | FZ06040-200 | NI-NH-BATTERY NA | HR AA NA BK 4S E | = | | | | | |
| A109 | FZ05365-100 | USB HARNESS | | N | | | | | |
| A110 | FZ04797-100 | IEEE1394 CABLE | | N | | | | | |
| A111 | FZ03284-100 | VIDEO CABLE | | N | | | | | |
| A112 | FZ00363-200 | CLAMP FILTER | | N | | | | | |
| A113 | BB18148-100 | CABLE HOLDER | | N | | | | | |
| A114 | FZ04809-100 | EYEPiece COVER | | N | | | | | |
| A115 | FZ05352-600 | CD-ROM | | N | | | | | |
| A116 | FZ06103-100 | EMI FILTER | | N | | | | | |
| A117 | BB18002-100 | CERTIFICATION SEAL | | N | | | | | |
| A118 | BB18385-100 | DEST.LBL.5000US J FG | | N | | | | | |
| A119 | BL00372-100 | IMPORTANT SAFETY | | N | | | | | |
| A120 | BL00373-100 | US WARRANTY | | N | | | | | |

6-1-2. CA-model



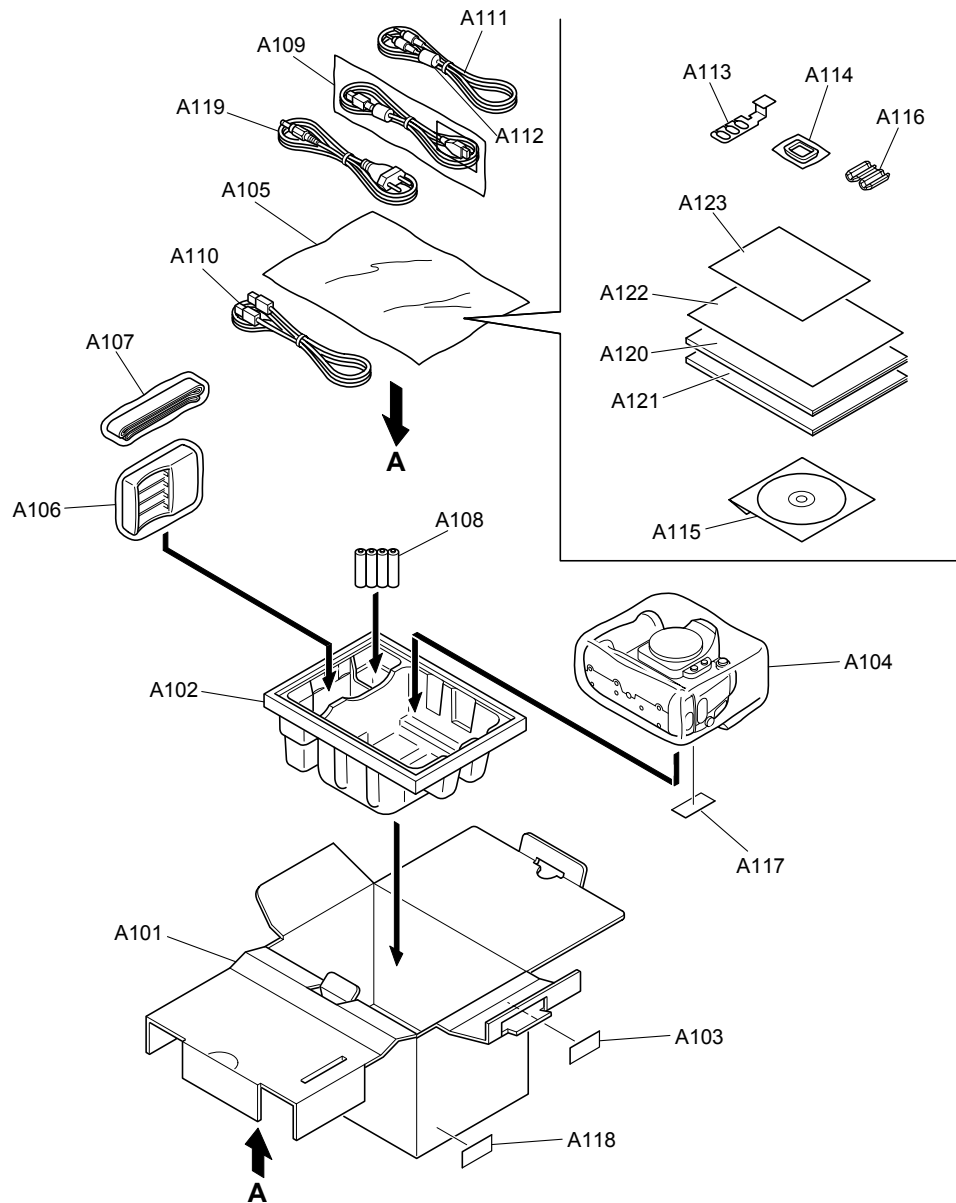
| Ref No. | Parts No. | Description | Comment | EL | Ref No. | Parts No. | Description | Comment | EL |
|---------|-------------|---------------------------|------------------|----|---------|-------------|------------------------|---------|----|
| A101 | FZ06042-100 | UNITARY BOX (W) | | N | A121 | BL00431-200 | I/F MANUAL S3PRO(W) | | N |
| A102 | FZ06012-100 | SHEET MOLD | | N | A122 | BL00432-200 | QUICKMANUAL S3PRO(ENG) | | N |
| A103 | BB12943-100 | BAR CODE LABEL BLANK | | N | A123 | BL00432-300 | QUICKMANUAL S3PRO(FRE) | | N |
| A104 | AZF0000-321 | HDPE BAG NO.12 | | N | A124 | BL00471-200 | CAUTION E S3PRO | | N |
| A105 | AZF0000-101 | LDPE BAG NO.10 | | N | A125 | BL00471-300 | CAUTION F S3PRO | | N |
| A106 | FZ06043-100 | BATTERY CHARGER | | = | | | | | |
| A107 | FZ06044-100 | SHOULDER BELT | | N | | | | | |
| A108 | FZ06040-200 | NI-NH-BATTERY NA | HR AA NA BK 4S E | = | | | | | |
| A109 | FZ05365-100 | USB HARNESS | | N | | | | | |
| A110 | FZ04797-100 | IEEE1394 CABLE | | N | | | | | |
| A111 | FZ03284-100 | VIDEO CABLE | | N | | | | | |
| A112 | FZ00363-200 | CLAMP FILTER | | N | | | | | |
| A113 | BB18148-100 | CABLE HOLDER | | N | | | | | |
| A114 | FZ04809-100 | EYEPIECE COVER | | N | | | | | |
| A115 | FZ05352-600 | CD-ROM | | N | | | | | |
| A116 | FZ06103-100 | EMI FILTER | | N | | | | | |
| A117 | BB18002-100 | CERTIFICATION SEAL | | N | | | | | |
| A118 | BB18385-400 | DEST.LBL.5000CA J FG | | N | | | | | |
| A119 | BL00430-201 | OWNER'S MANUAL S3PRO(ENG) | | N | | | | | |
| A120 | BL00430-301 | OWNER'S MANUAL S3PRO(FRG) | | N | | | | | |

6-1-4. EG-model



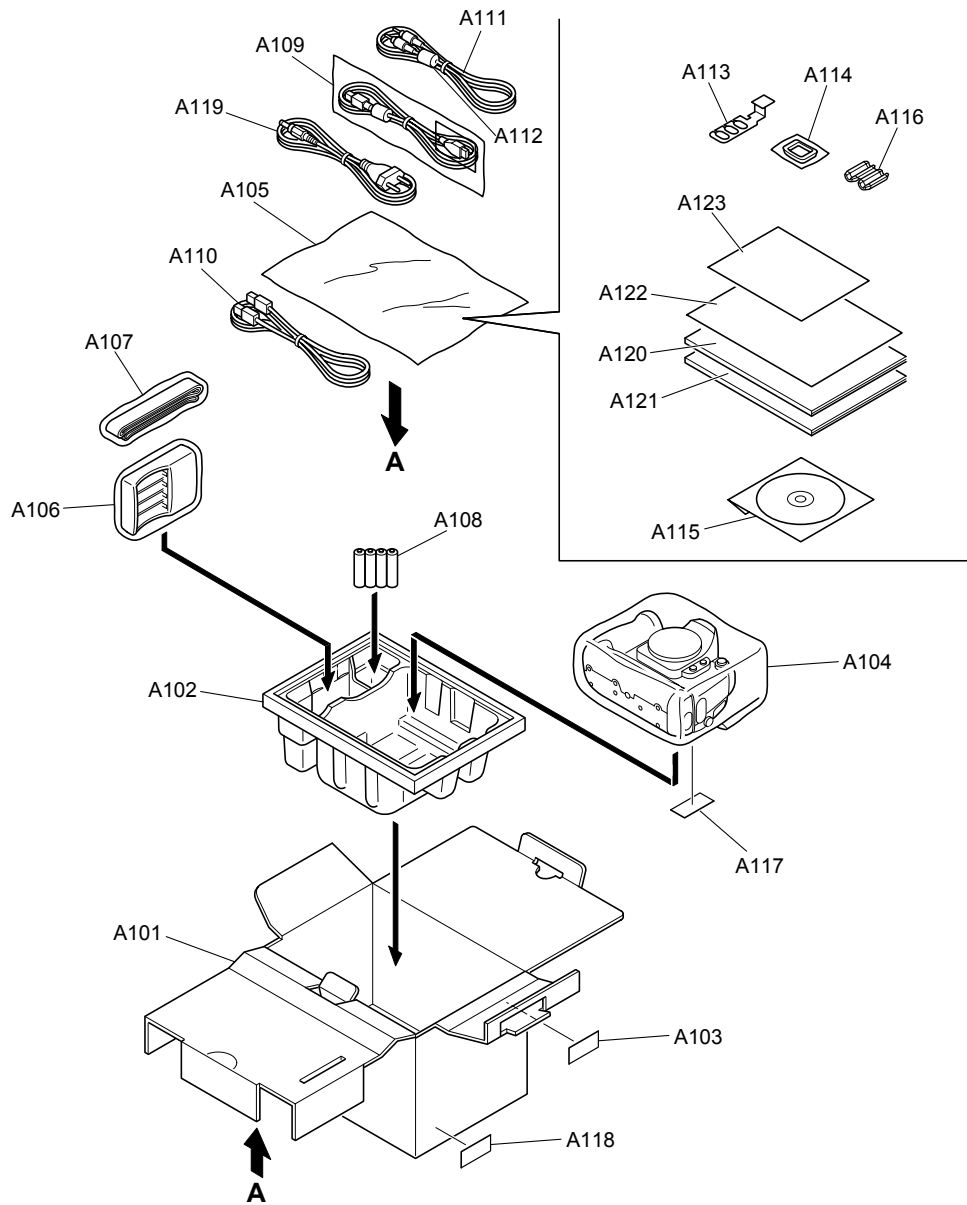
| Ref No. | Parts No. | Description | Comment | EL | Ref No. | Parts No. | Description | Comment | EL |
|---------|-------------|----------------------|------------------|----|---------|-------------|---------------------------|---------|----|
| A101 | FZ06042-100 | UNITARY BOX (W) | | N | A121 | BL00430-201 | OWNER'S MANUAL S3PRO(ENG) | | N |
| A102 | FZ06012-100 | SHEET MOLD | | N | A122 | BL00431-200 | I/F MANUAL S3PRO(W) | | N |
| A103 | BB12943-100 | BAR CODE LABEL BLANK | | N | A123 | BL00432-200 | QUICKMANUAL S3PRO(ENG) | | N |
| A104 | AZF0000-321 | HDPE BAG NO.12 | | N | A124 | BL00471-200 | CAUTION E S3PRO | | N |
| A105 | AZF0000-101 | LDPE BAG NO.10 | | N | | | | | |
| A106 | FZ06043-200 | BATTERY CHARGER | | = | | | | | |
| A107 | FZ06044-100 | SHOULDER BELT | | N | | | | | |
| A108 | FZ06040-300 | NI-NH-BATTERY GN | HR AA GN BK 4S E | = | | | | | |
| A109 | FZ05365-100 | USB HARNESS | | N | | | | | |
| A110 | FZ04797-100 | IEEE1394 CABLE | | N | | | | | |
| A111 | FZ03284-100 | VIDEO CABLE | | N | | | | | |
| A112 | FZ00363-200 | CLAMP FILTER | | N | | | | | |
| A113 | BB18148-100 | CABLE HOLDER | | N | | | | | |
| A114 | FZ04809-100 | EYEPIECE COVER | | N | | | | | |
| A115 | FZ05352-600 | CD-ROM | | N | | | | | |
| A116 | FZ06103-100 | EMI FILTER | | N | | | | | |
| A117 | BB18002-100 | CERTIFICATION SEAL | | N | | | | | |
| A118 | BB18385-300 | DEST.LBL.5000EG J FG | | N | | | | | |
| A119 | FZ05210-400 | AC POWERCORD EG | AC-5VW EG | N | | | | | |
| A120 | BL00176-100 | WARRANTY CARD EG | | N | | | | | |

6-1-5. GE-model



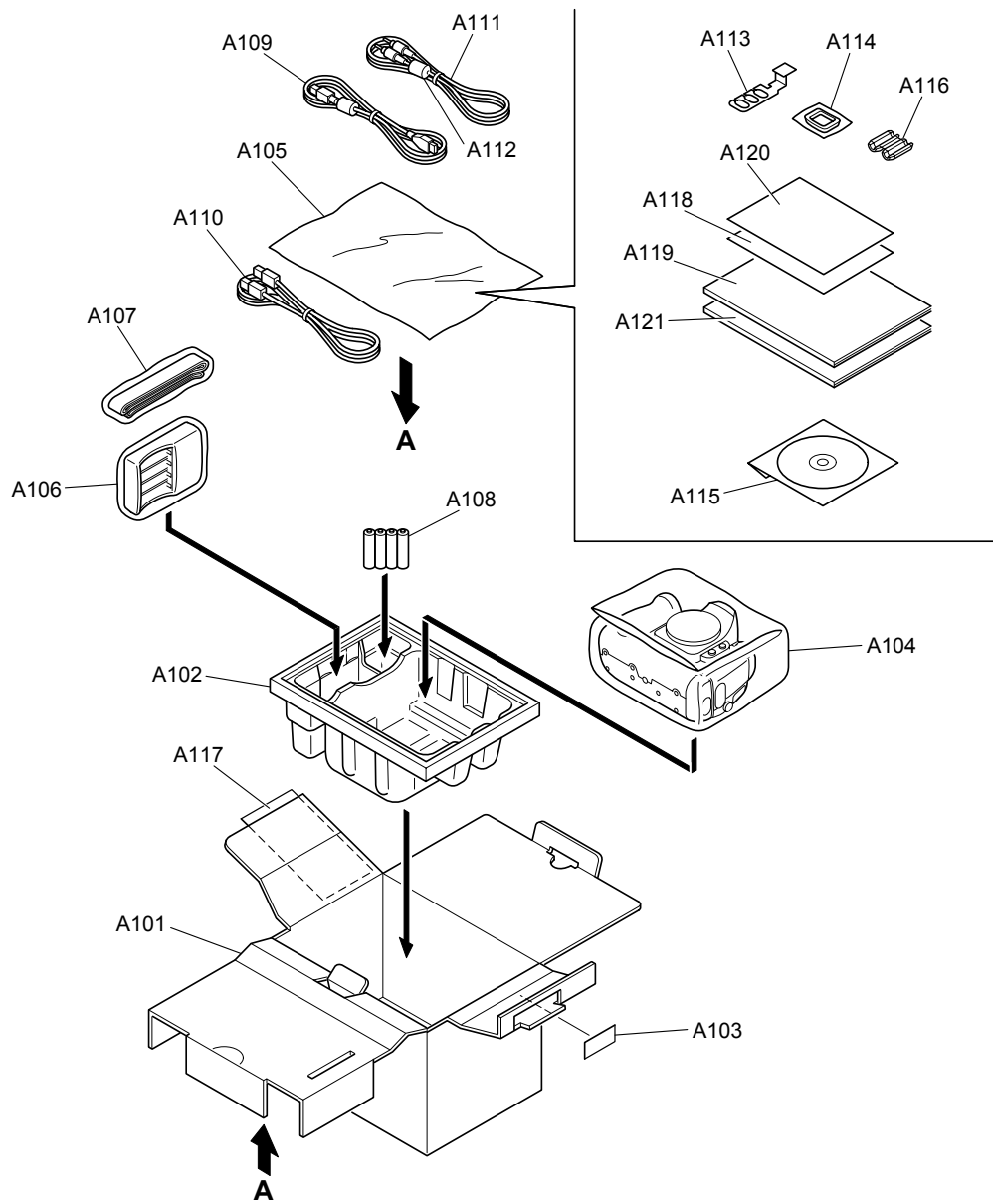
| Ref No. | Parts No. | Description | Comment | EL | Ref No. | Parts No. | Description | Comment | EL |
|---------|-------------|---------------------------|------------------|----|---------|-------------|------------------------|---------|----|
| A101 | FZ06042-100 | UNITARY BOX (W) | | N | A121 | BL00431-200 | I/F MANUAL S3PRO(W) | | N |
| A102 | FZ06012-100 | SHEET MOLD | | N | A122 | BL00432-400 | QUICKMANUAL S3PRO(GER) | | N |
| A103 | BB12943-100 | BAR CODE LABEL BLANK | | N | A123 | BL00471-400 | CAUTION G S3PRO | | N |
| A104 | AZF0000-321 | HDPE BAG NO.12 | | N | | | | | |
| A105 | AZF0000-101 | LDPE BAG NO.10 | | N | | | | | |
| A106 | FZ06043-200 | BATTERY CHARGER | | = | | | | | |
| A107 | FZ06044-100 | SHOULDER BELT | | N | | | | | |
| A108 | FZ06040-300 | NI-NH-BATTERY GN | HR AA GN BK 4S E | = | | | | | |
| A109 | FZ05365-100 | USB HARNESS | | N | | | | | |
| A110 | FZ04797-100 | IEEE1394 CABLE | | N | | | | | |
| A111 | FZ03284-100 | VIDEO CABLE | | N | | | | | |
| A112 | FZ00363-200 | CLAMP FILTER | | N | | | | | |
| A113 | BB18148-100 | CABLE HOLDER | | N | | | | | |
| A114 | FZ04809-100 | EYEPiece COVER | | N | | | | | |
| A115 | FZ05352-600 | CD-ROM | | N | | | | | |
| A116 | FZ06103-100 | EMI FILTER | | N | | | | | |
| A117 | BB18002-100 | CERTIFICATION SEAL | | N | | | | | |
| A118 | BB18385-500 | DEST.LBL.5000GE J FG | | N | | | | | |
| A119 | FZ05210-300 | AC POWERCORD E | AC-5VW E | N | | | | | |
| A120 | BL00430-401 | OWNER'S MANUAL S3PRO(GER) | | N | | | | | |

6-1-6. AS-model



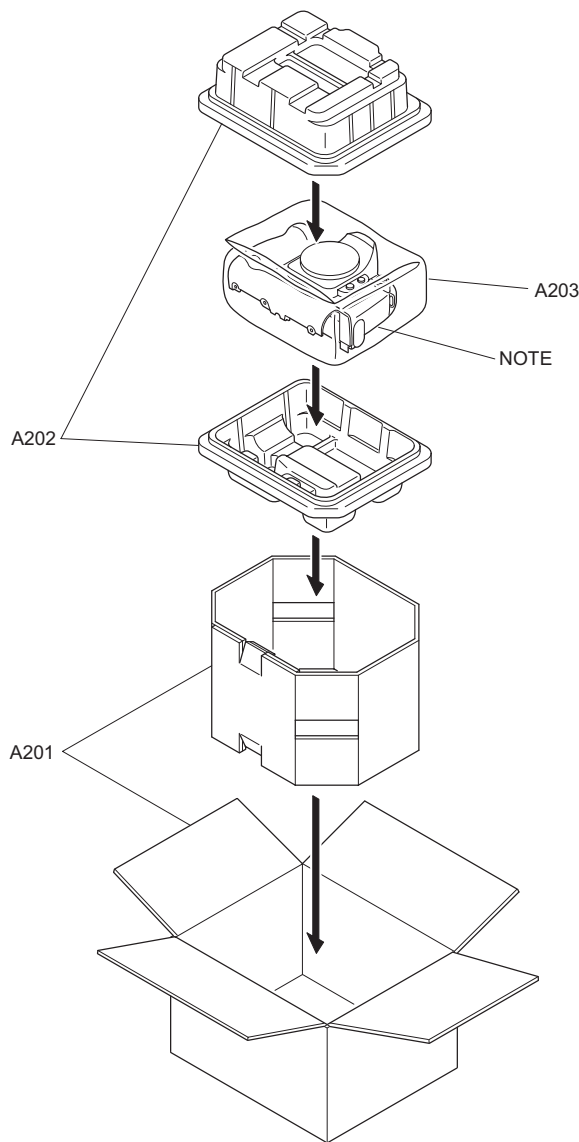
| Ref No. | Parts No. | Description | Comment | EL | Ref No. | Parts No. | Description | Comment | EL |
|---------|-------------|---------------------------|------------------|----|---------|-------------|------------------------|---------|----|
| A101 | FZ06042-100 | UNITARY BOX (W) | | N | A121 | BL00431-200 | I/F MANUAL S3PRO(W) | | N |
| A102 | FZ06012-100 | SHEET MOLD | | N | A122 | BL00432-200 | QUICKMANUAL S3PRO(ENG) | | N |
| A103 | BB12943-100 | BAR CODE LABEL BLANK | | N | A123 | BL00471-200 | CAUTION E S3PRO | | N |
| A104 | AZF0000-321 | HDPE BAG NO.12 | | N | | | | | |
| A105 | AZF0000-101 | LDPE BAG NO.10 | | N | | | | | |
| A106 | FZ06043-200 | BATTERY CHARGER | | = | | | | | |
| A107 | FZ06044-100 | SHOULDER BELT | | N | | | | | |
| A108 | FZ06040-300 | NI-NH-BATTERY GN | HR AA GN BK 4S E | = | | | | | |
| A109 | FZ05365-100 | USB HARNESS | | N | | | | | |
| A110 | FZ04797-100 | IEEE1394 CABLE | | N | | | | | |
| A111 | FZ03284-100 | VIDEO CABLE | | N | | | | | |
| A112 | FZ00363-200 | CLAMP FILTER | | N | | | | | |
| A113 | BB18148-100 | CABLE HOLDER | | N | | | | | |
| A114 | FZ04809-100 | EYEPIECE COVER | | N | | | | | |
| A115 | FZ05352-600 | CD-ROM | | N | | | | | |
| A116 | FZ06103-100 | EMI FILTER | | N | | | | | |
| A117 | BB18002-100 | CERTIFICATION SEAL | | N | | | | | |
| A118 | BB18385-600 | DEST.LBL.5000AS J FG | | N | | | | | |
| A119 | FZ05210-300 | AC POWERCORD E | AC-5VW E | N | | | | | |
| A120 | BL00430-201 | OWNER'S MANUAL S3PRO(ENG) | | N | | | | | |

6-1-7. JP-model



| Ref No. | Parts No. | Description | Comment | EL | Ref No. | Parts No. | Description | Comment | EL |
|---------|-------------|---------------------------|------------------|----|---------|-------------|------------------|---------|----|
| A101 | FZ06011-100 | UNITARY BOX (J) | | N | A121 | BL00369-100 | MANUAL FPV AX4.2 | | N |
| A102 | FZ06012-100 | SHEET MOLD | | N | | | | | |
| A103 | BB12943-100 | BAR CODE LABEL BLANK | | N | | | | | |
| A104 | AZF0000-321 | HDPE BAG NO.12 | | N | | | | | |
| A105 | AZF0000-101 | LDPE BAG NO.10 | | N | | | | | |
| A106 | FZ05823-100 | CHAGER | | = | | | | | |
| A107 | FZ06044-100 | SHOULDER BELT | | N | | | | | |
| A108 | FZ06040-100 | NI-NH-BATTERY JN | HR AA JN BK 4S E | = | | | | | |
| A109 | FZ05241-100 | USB CABLE | | N | | | | | |
| A110 | FZ04797-100 | IEEE1394 CABLE | | N | | | | | |
| A111 | FZ03284-100 | VIDEO CABLE | | N | | | | | |
| A112 | FZ00363-200 | CLAMP FILTER | | N | | | | | |
| A113 | BB18148-100 | CABLE HOLDER | | N | | | | | |
| A114 | FZ04809-100 | EYEPiece COVER | | N | | | | | |
| A115 | FZ05352-600 | CD-ROM | | N | | | | | |
| A116 | FZ06103-100 | EMI FILTER | | N | | | | | |
| A117 | BB12944-100 | WARRANTY CARD | | N | | | | | |
| A118 | BL00190-100 | SAFETY CARD | | N | | | | | |
| A119 | BL00430-101 | OWNER'S MANUAL S3PRO(JPN) | | N | | | | | |
| A120 | BL00471-100 | CAUTION J S3PRO | | N | | | | | |

6-2. Transportable form and necessary parts for camera body repair



<Spool position of the CAMERA BODY ASSY>

When you ask for repair of Camera Body Assy, please put a label which shows the serial number of FinePix S3pro onto the spool position.

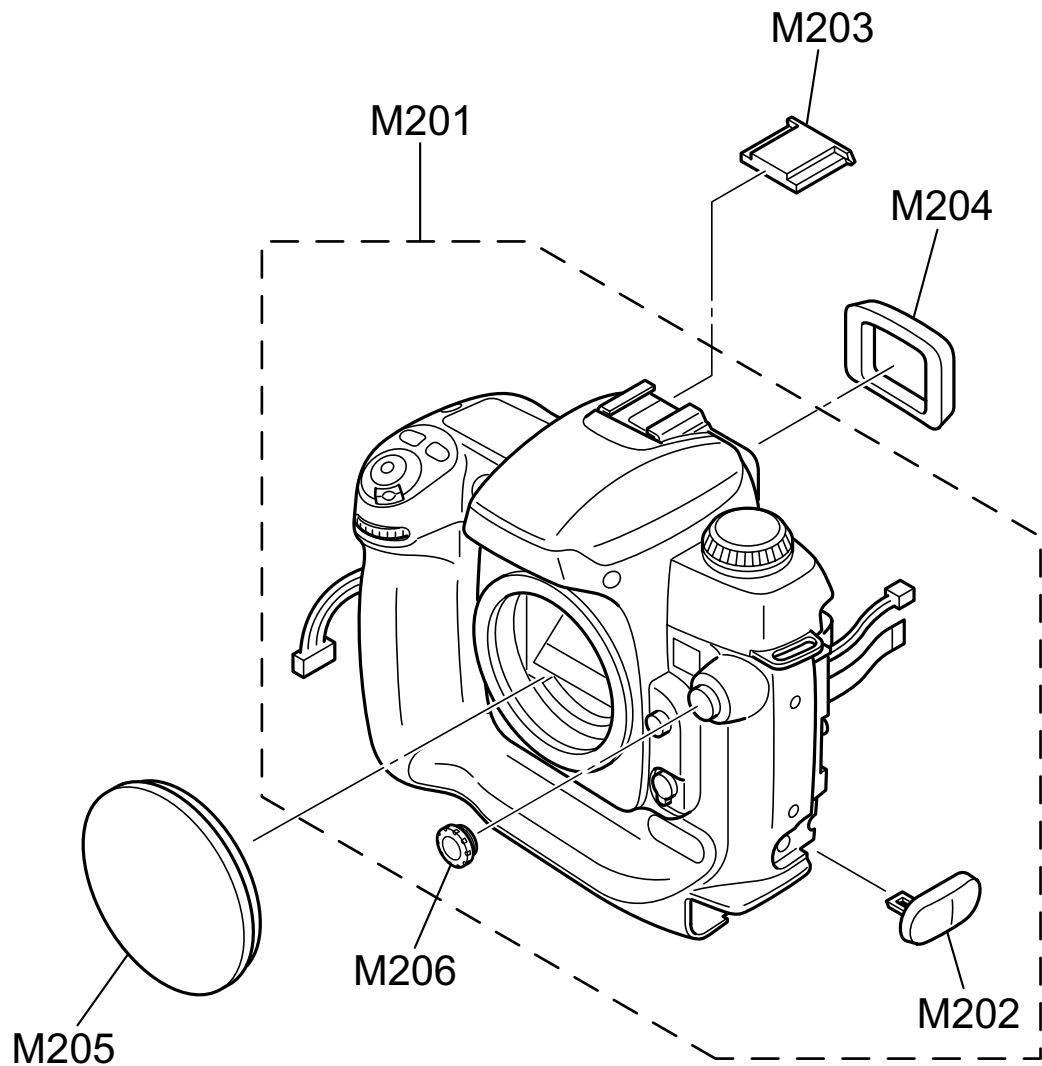
[Notes]

After the repair job for Camera Body Assy is finished, please peel off the above label and put it together with DSC block. After that, adjust it like when you do after replacing Camera Body Assy.

Label

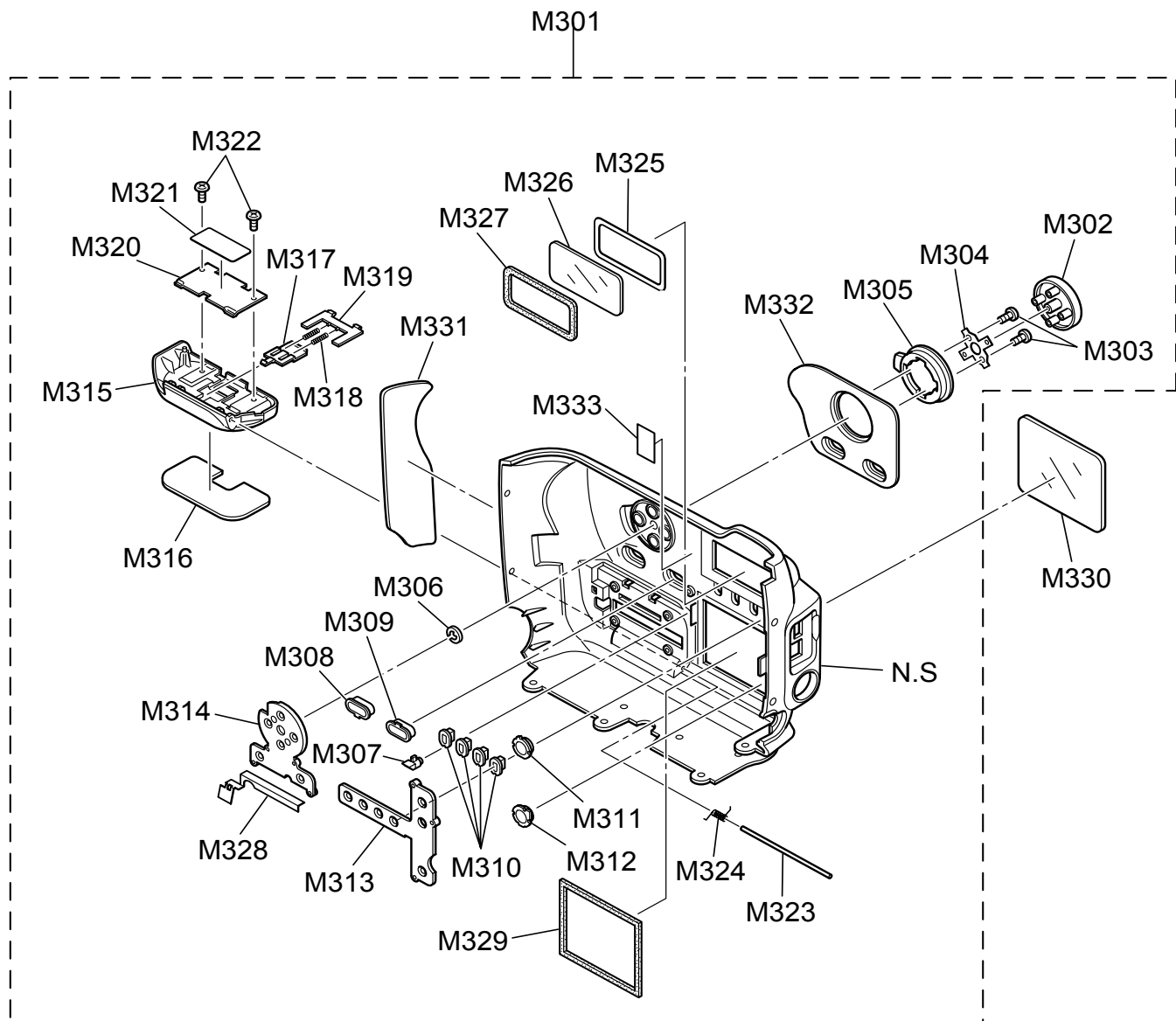
| Ref.No. | Parts No. | Description | Remarks |
|---------|-------------|-----------------------------------|---------------------------------|
| A201 | ZPK0102-100 | Packing box for S3Pro CAMERA BODY | With inside frame |
| A202 | ZPK0103-100 | Protector for S3Pro CAMERA BODY | One pair in the top and bottom. |
| A203 | NAY0083 | Bag for transportation | S1Pro and commonness |

6-3. CAMERA BODY



| Ref No. | Parts No. | Description | Comment | EL |
|---------|-------------|------------------|---------|----|
| M201 | FZ06022-100 | CAMERA BODY ASSY | | = |
| M202 | BB17618-100 | TERMINAL COVER | | N |
| M203 | FZ04876-100 | SHOECAP | | N |
| M204 | FZ04801-100 | RUBBER EYECUP | | N |
| M205 | BB17663-100 | BODY CAP | | N |
| M206 | FZ04807-100 | SYNCHRO CAP | | N |

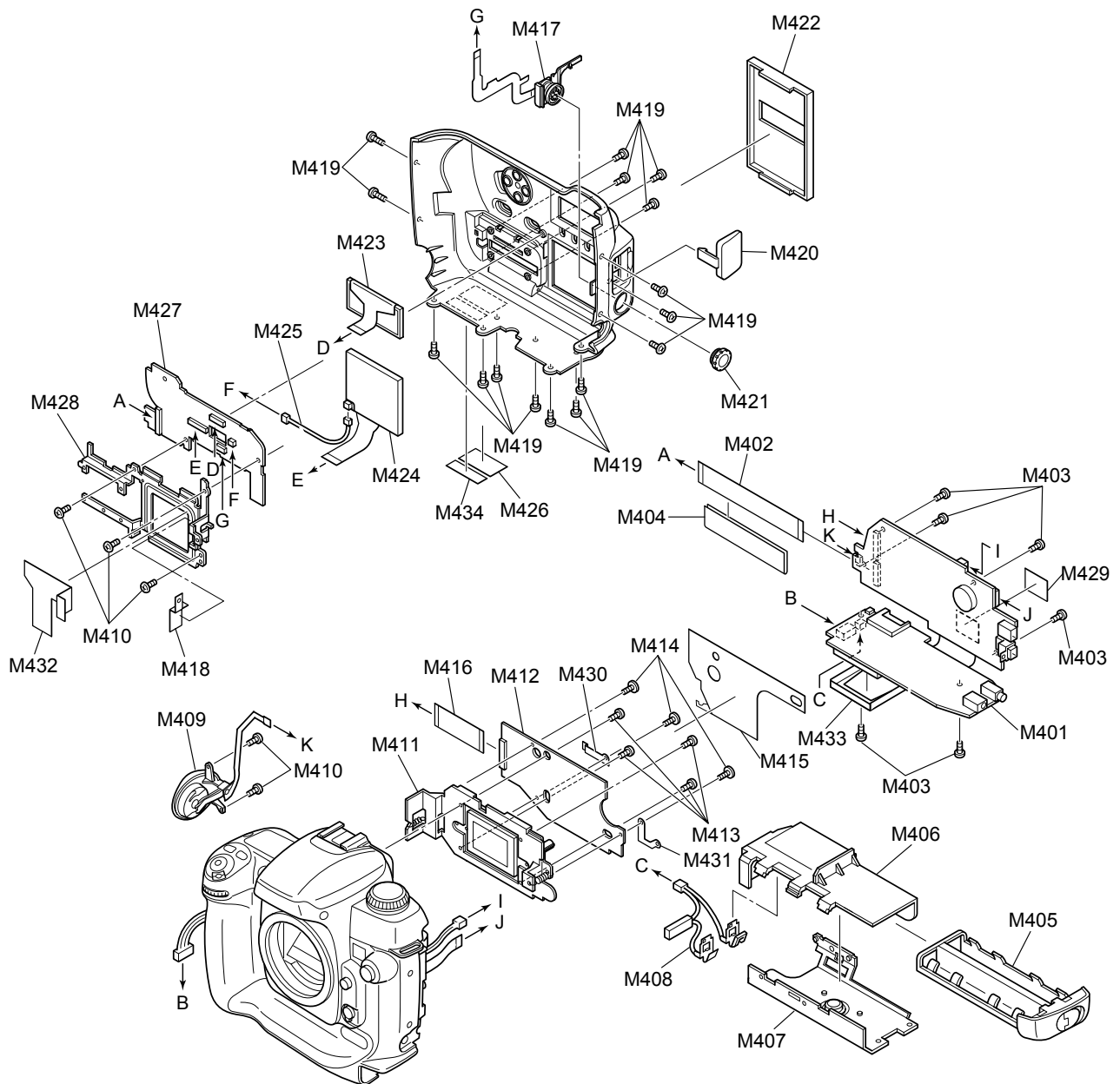
6-4. R CABI



| Ref No. | Parts No. | Description | Comment | EL | Ref No. | Parts No. | Description | Comment | EL |
|---------|-------------|--------------------|---------|----|---------|-------------|--------------------|---------|----|
| M301 | BU03053-100 | R CABI ASSY | | N | M321 | BB17649-100 | LABEL(CARD) | | N |
| M302 | BB17633-100 | CURSOR BUTTON | | N | M322 | BB17335-100 | SCREW BT2M1.7X2.5B | | N |
| M303 | BB17335-400 | SCREW BT2M1.7X4.0B | | N | M323 | BB17648-100 | SHAFT(CARD) | | N |
| M304 | BB17635-100 | CURSOR PSP | | N | M324 | BB17653-100 | TSP(CARD) | | N |
| M305 | BB17634-100 | C LOCK LEVER | | N | M325 | BB17690-100 | W FACE DISP | | N |
| M306 | ARE2010-CN1 | JIS E-RING 2.0 | | N | M326 | BB17689-100 | DISP WINDOW | | N |
| M307 | BB17637-100 | LED GUIDE | | N | M327 | BB17655-100 | DISP CUSHION | | N |
| M308 | BB17638-100 | OK BUTTON | | N | M328 | BB17656-100 | BLIND SHEET | | N |
| M309 | BB17639-100 | BACK BUTTON | | N | M329 | BB17658-100 | LCD CUSHION | | N |
| M310 | BB17640-100 | CHANGE BUTTON | | N | M330 | BB17661-100 | MONITOR WINDOW | | N |
| M311 | BB17641-100 | FUNC BUTTON | | N | M331 | BB17630-100 | REAR SIDE RUBBER | | N |
| M312 | BB17642-100 | PLAY BUTTON | | N | M332 | BB17628-100 | REAR RUBBER | | N |
| M313 | BB17643-100 | RUBBER KEY F | | N | M333 | BB18609-100 | BLIND SHEET RUBBER | | N |
| M314 | BB17644-100 | RUBBER KEY C | | N | | | | | |
| M315 | BB17645-100 | CARD COVER | | N | | | | | |
| M316 | BB17646-100 | CARD RUBBER | | N | | | | | |
| M317 | BB17650-100 | CARD KONB | | N | | | | | |
| M318 | BB18005-100 | CSP(CARD) | | N | | | | | |
| M319 | BB18000-100 | CARD LOCK | | N | | | | | |
| M320 | BB17651-100 | CARD PLATE | | N | | | | | |

6-5. Internal parts

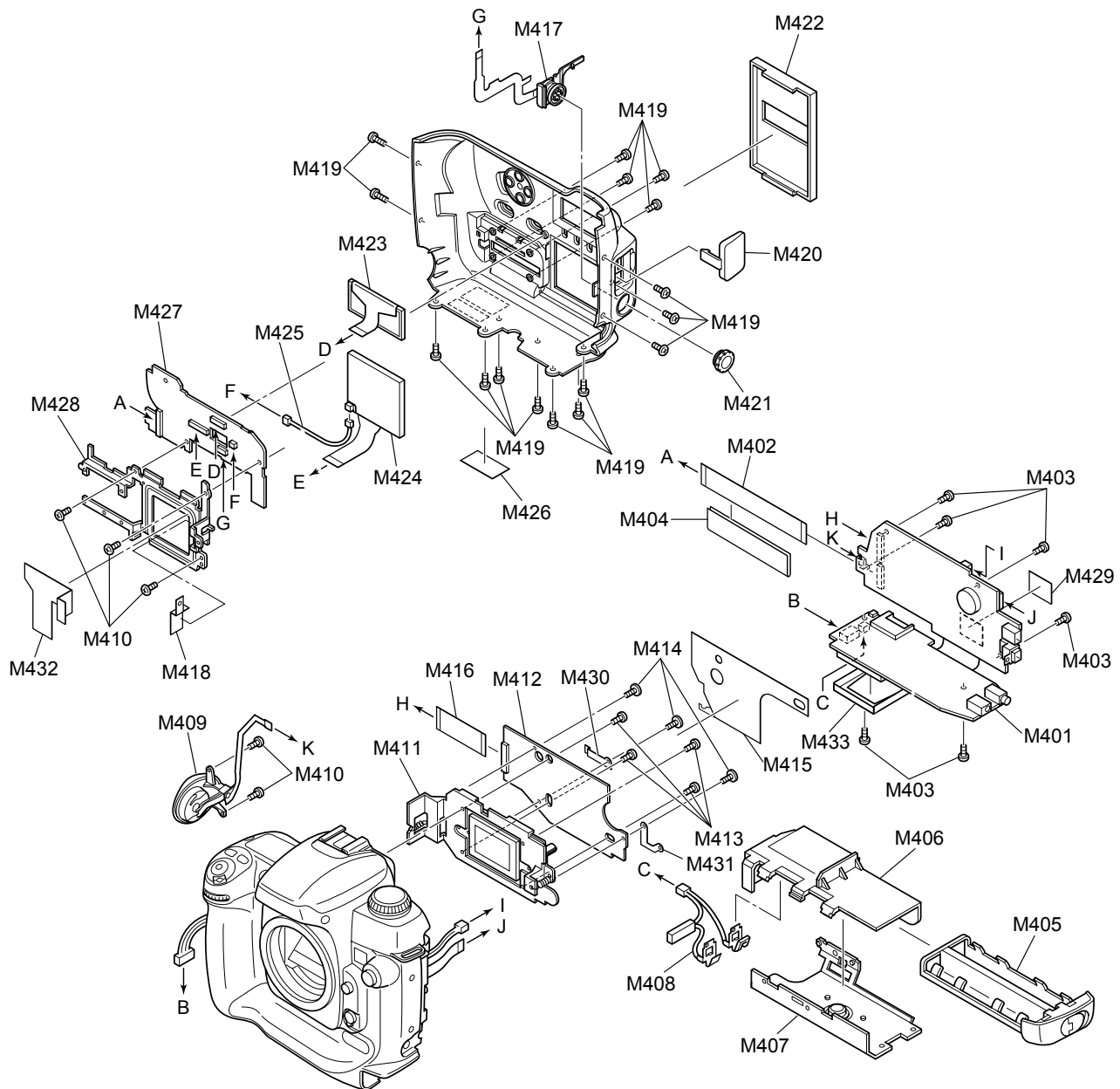
6-5-1. US/CA-model



| Ref No. | Parts No. | Description | Comment | EL | Ref No. | Parts No. | Description | Comment | EL |
|---------|-------------|------------------------|---------|----|---------|-------------|---------------------------|---------|----|
| M401 | CB1468-A101 | MAIN PWB ASSY | | = | M421 | FZ06024-100 | REMOTE RELEASE SOCKET CAP | | N |
| M402 | FZ06035-100 | MAIN-SW FPC | | N | M422 | BB17664-100 | WINDOW COVER | | N |
| M403 | BB17345-200 | SCREW MS2M1.7X3.0N | | N | M423 | FZ06039-100 | DOT MATRIX LCD | | N |
| M404 | FZ06117-100 | MAIN-SW SHEET | | = | M424 | BF05369-100 | LCD MONITOR | | N |
| M405 | BU01990-100 | BATT CART ASSY | | N | M425 | FZ05414-100 | WIRE HARNESS | | N |
| M406 | BB17622-100 | BATT HOLDER | | N | M426 | BB17662-100 | PRODUCT LABEL | | N |
| M407 | BU03052-100 | BOTTOM FRAME ASSY | | N | M427 | CB1470-A100 | SW PWB ASSY | | = |
| M408 | BU03069-100 | BATT HARNESS ASSY | | N | M428 | BB17659-100 | REAR FRAME | | N |
| M409 | BF05083-100 | RELEASE HOLDER CONST | | N | M429 | FZ06125-100 | MAIN SHEET | | = |
| M410 | BB17335-400 | SCREW BT2M1.7X4.0B | | N | M430 | BB18526-100 | EMI SHEET R | | N |
| M411 | BF05370-100 | CCD UNIT | | = | M431 | BB18525-100 | EMI SHEET L | | N |
| M412 | CB1469-A102 | CCD PWB ASSY | | = | M432 | BB18527-100 | EMI SHEET 10FPC | | N |
| M413 | BB11386-100 | SCREW_M1.2X2.4C | | N | M433 | FZ04802-100 | CF EJECTOR | | N |
| M414 | BB18126-100 | CCD PWB SCREW | | N | M434 | BB09250-200 | PL SEAL (U) | | N |
| M415 | FZ06093-100 | SHIELD SHEET | | = | | | | | |
| M416 | FZ06036-100 | MAIN-CCD FPC | | N | | | | | |
| M417 | BF05086-100 | 10PIN TERMINAL ASSY | | N | | | | | |
| M418 | BB18524-100 | EMI SHEET 10CNN | | N | | | | | |
| M419 | BB17336-200 | SCREW N-MS2M1.7X3.0BA | | N | | | | | |
| M420 | BB17657-100 | DIGITAL TERMINAL COVER | | N | | | | | |

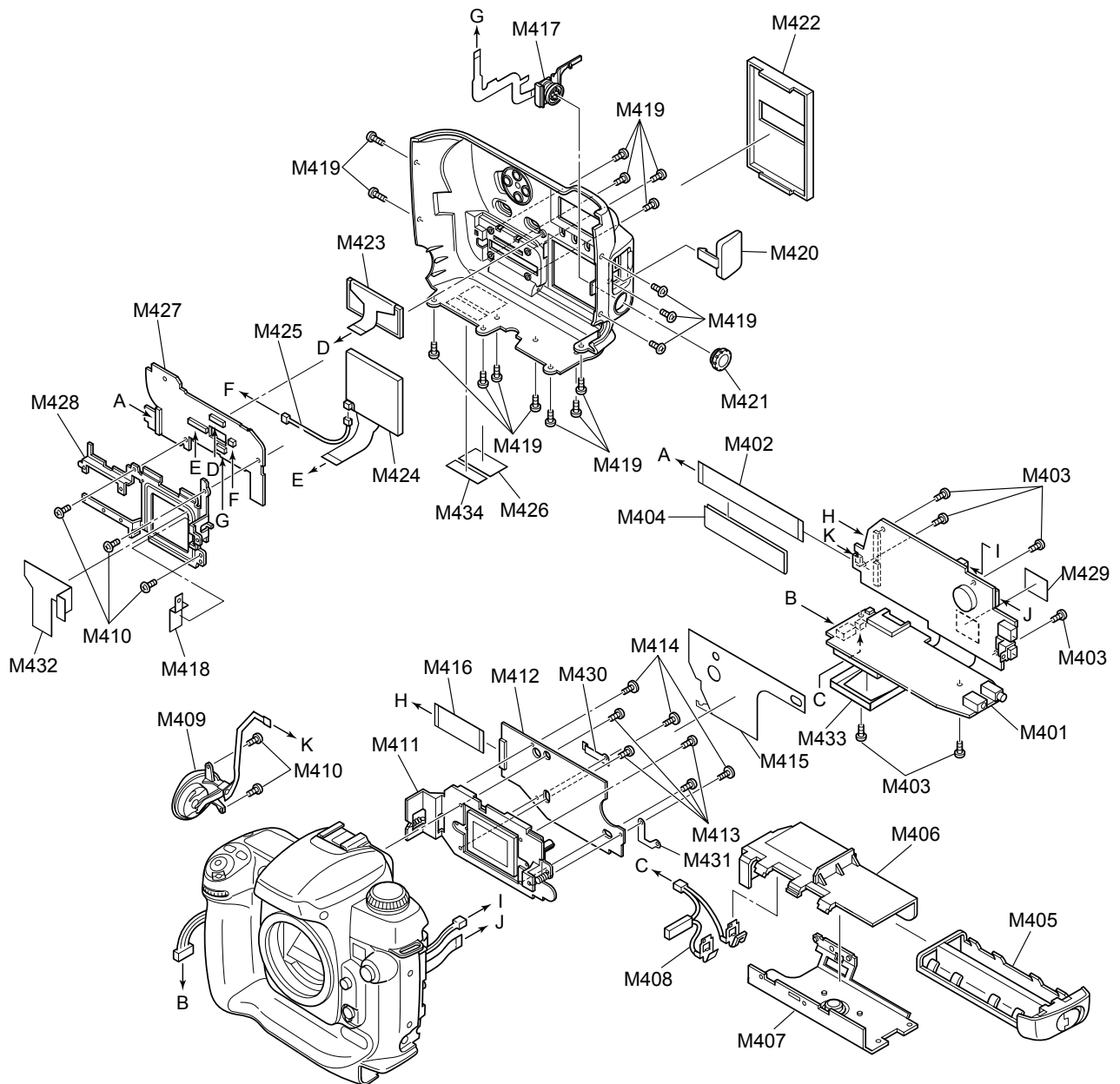
6. Parts List

6-5-2. EU/EG/GE/AS-model



| Ref No. | Parts No. | Description | Comment | EL | Ref No. | Parts No. | Description | Comment | EL |
|---------|-------------|------------------------|---------|----|---------|-------------|---------------------------|---------|----|
| M401 | CB1468-A101 | MAIN PWB ASSY | | = | M421 | FZ06024-100 | REMOTE RELEASE SOCKET CAP | | N |
| M402 | FZ06035-100 | MAIN-SW FPC | | N | M422 | BB17664-100 | WINDOW COVER | | N |
| M403 | BB17345-200 | SCREW MS2M1.7X3.0N | | N | M423 | FZ06039-100 | DOT MATRIX LCD | | N |
| M404 | FZ06117-100 | MAIN-SW SHEET | | = | M424 | BF05369-100 | LCD MONITOR | | N |
| M405 | BU01990-100 | BATT CART ASSY | | N | M425 | FZ05414-100 | WIRE HARNESS | | N |
| M406 | BB17622-100 | BATT HOLDER | | N | M426 | BB17662-100 | PRODUCT LABEL | | N |
| M407 | BU03052-100 | BOTTOM FRAME ASSY | | N | M427 | CB1470-A100 | SW PWB ASSY | | = |
| M408 | BU03069-100 | BATT HARNESS ASSY | | N | M428 | BB17659-100 | REAR FRAME | | N |
| M409 | BF05083-100 | RELEASE HOLDER CONST | | N | M429 | FZ06125-100 | MAIN SHEET | | = |
| M410 | BB17335-400 | SCREW BT2M1.7X4.0B | | N | M430 | BB18526-100 | EMI SHEET R | | N |
| M411 | BF05370-100 | CCD UNIT | | = | M431 | BB18525-100 | EMI SHEET L | | N |
| M412 | CB1469-A102 | CCD PWB ASSY | | = | M432 | BB18527-100 | EMI SHEET 10FPC | | N |
| M413 | BB11386-100 | SCREW_M1.2X2.4C | | N | M433 | FZ04802-100 | CF EJECTOR | | N |
| M414 | BB18126-100 | CCD PWB SCREW | | N | | | | | |
| M415 | FZ06093-100 | SHIELD SHEET | | = | | | | | |
| M416 | FZ06036-100 | MAIN-CCD FPC | | N | | | | | |
| M417 | BF05086-100 | 10PIN TERMINAL ASSY | | N | | | | | |
| M418 | BB18524-100 | EMI SHEET 10CNN | | N | | | | | |
| M419 | BB17336-200 | SCREW N-MS2M1.7X3.0BA | | N | | | | | |
| M420 | BB17657-100 | DIGITAL TERMINAL COVER | | N | | | | | |

6-5-3. JP-model

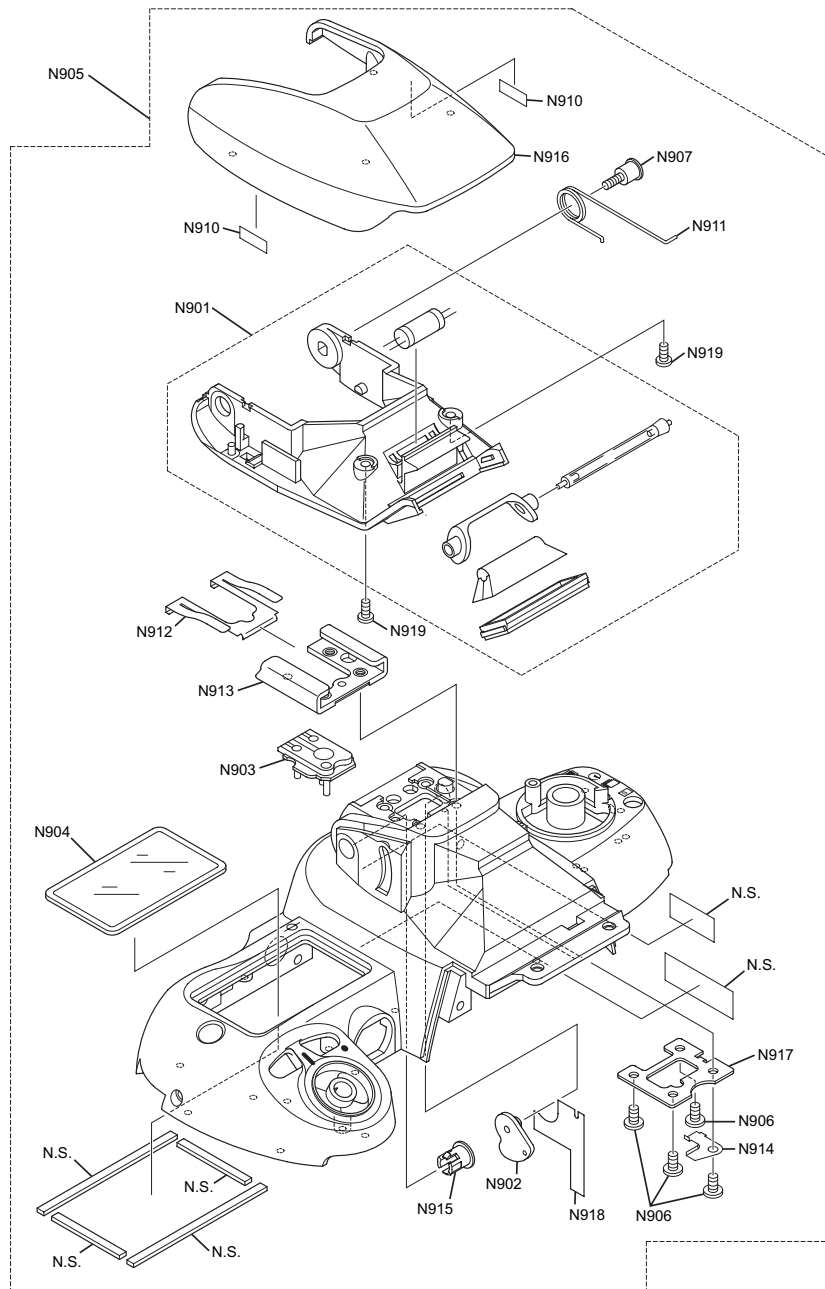


| Ref No. | Parts No. | Description | Comment | EL | Ref No. | Parts No. | Description | Comment | EL |
|---------|-------------|------------------------|---------|----|---------|-------------|---------------------------|---------|----|
| M401 | CB1468-A101 | MAIN PWB ASSY | | = | M421 | FZ06024-100 | REMOTE RELEASE SOCKET CAP | | N |
| M402 | FZ06035-100 | MAIN-SW FPC | | N | M422 | BB17664-100 | WINDOW COVER | | N |
| M403 | BB17345-200 | SCREW MS2M1.7X3.0N | | N | M423 | FZ06039-100 | DOT MATRIX LCD | | N |
| M404 | FZ06117-100 | MAIN-SW SHEET | | = | M424 | BF05369-100 | LCD MONITOR | | N |
| M405 | BU01990-100 | BATT CART ASSY | | N | M425 | FZ05414-100 | WIRE HARNESS | | N |
| M406 | BB17622-100 | BATT HOLDER | | N | M426 | BB17662-100 | PRODUCT LABEL | | N |
| M407 | BU03052-100 | BOTTOM FRAME ASSY | | N | M427 | CB1470-A100 | SW PWB ASSY | | = |
| M408 | BU03069-100 | BATT HARNESS ASSY | | N | M428 | BB17659-100 | REAR FRAME | | N |
| M409 | BF05083-100 | RELEASE HOLDER CONST | | N | M429 | FZ06125-100 | MAIN SHEET | | = |
| M410 | BB17335-400 | SCREW BT2M1.7X4.0B | | N | M430 | BB18526-100 | EMI SHEET R | | N |
| M411 | BF05370-100 | CCD UNIT | | = | M431 | BB18525-100 | EMI SHEET L | | N |
| M412 | CB1469-A102 | CCD PWB ASSY | | = | M432 | BB18527-100 | EMI SHEET 10FPC | | N |
| M413 | BB11386-100 | SCREW_M1.2X2.4C | | N | M433 | FZ04802-100 | CF EJECTOR | | N |
| M414 | BB18126-100 | CCD PWB SCREW | | N | M434 | BB09250-100 | PL LABEL | | N |
| M415 | FZ06093-100 | SHIELD SHEET | | = | | | | | |
| M416 | FZ06036-100 | MAIN-CCD FPC | | N | | | | | |
| M417 | BF05086-100 | 10PIN TERMINAL ASSY | | N | | | | | |
| M418 | BB18524-100 | EMI SHEET 10CNN | | N | | | | | |
| M419 | BB17336-200 | SCREW N-MS2M1.7X3.0BA | | N | | | | | |
| M420 | BB17657-100 | DIGITAL TERMINAL COVER | | N | | | | | |

6-6. List of parts related to exterior

★ Revised: 27. Dec. 2004

6-6-1. TOP COVER 1

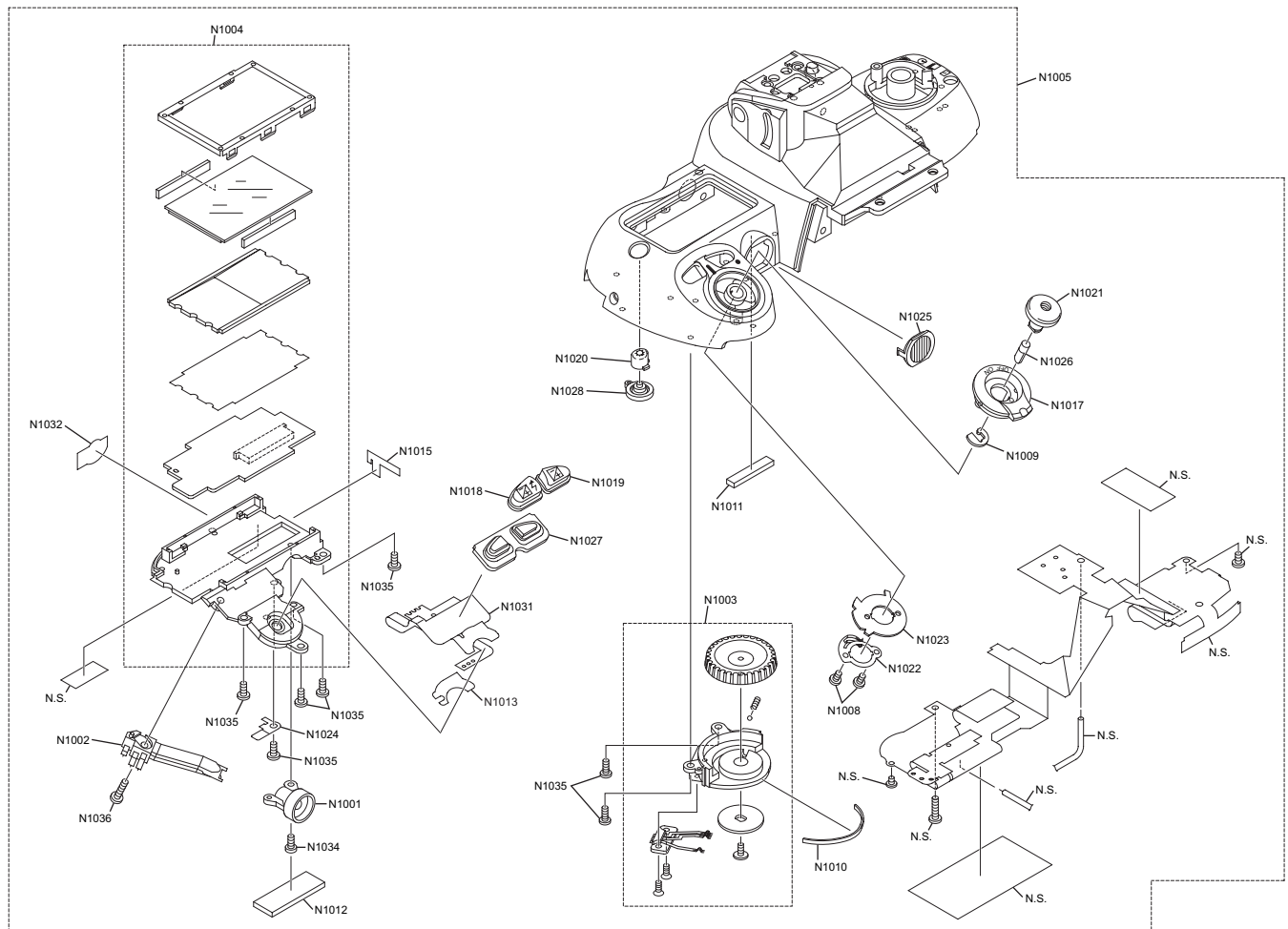


N.S.=Not Supply

| Ref No. | Parts No. | Description | Comment | EL | Ref No. | Parts No. | Description | Comment | EL |
|---------|-------------|--------------------------|---------|----|---------|------------|----------------|---------|----|
| N901 | 1B060-713-2 | SB LOWER CASE UNIT | | N | N916 | 1K685-085 | SB UPPER CASE | | N |
| N902 | 1C998-038 | SB UP SWITCH UNIT | | N | N917 | 1S700-355 | BACKING PLATE | | N |
| N903 | 1C998-040 | SHOE MOLD UNIT | | N | N918 | 1S998-506 | SB UP FPC UNIT | | N |
| N904 | 1C998-042 | EXTERNAL LCD WINDOW UNIT | | N | N919 | G1-17030FD | SCREW | | N |
| N905 | 1C998-689 | TOP COVER UNIT | | N | N.S. | N.S. | INSULATE TAPE | | N |
| N906 | 1K001-077 | SCREW | | N | N.S. | N.S. | TAPE | | N |
| N907 | 1K010-469 | SCREW | | N | | | | | |
| N.S. | N.S. | SPONGE | | N | | | | | |
| N.S. | N.S. | SPONGE | | N | | | | | |
| N910 | 1K119-308 | RUBBER SEAL | | N | | | | | |
| N911 | 1K230-548 | FLASH UP SPRING | | N | | | | | |
| N912 | 1K240-867 | SHOE SPRING | | N | | | | | |
| N913 | 1K406-032-1 | SHOE | | N | | | | | |
| N914 | 1K611-833 | LUG PLATE A | | N | | | | | |
| N915 | 1K631-102 | SB CASE AXLE | | N | | | | | |

6-6-2. TOP COVER 2

★ Revised: 27. Dec. 2004



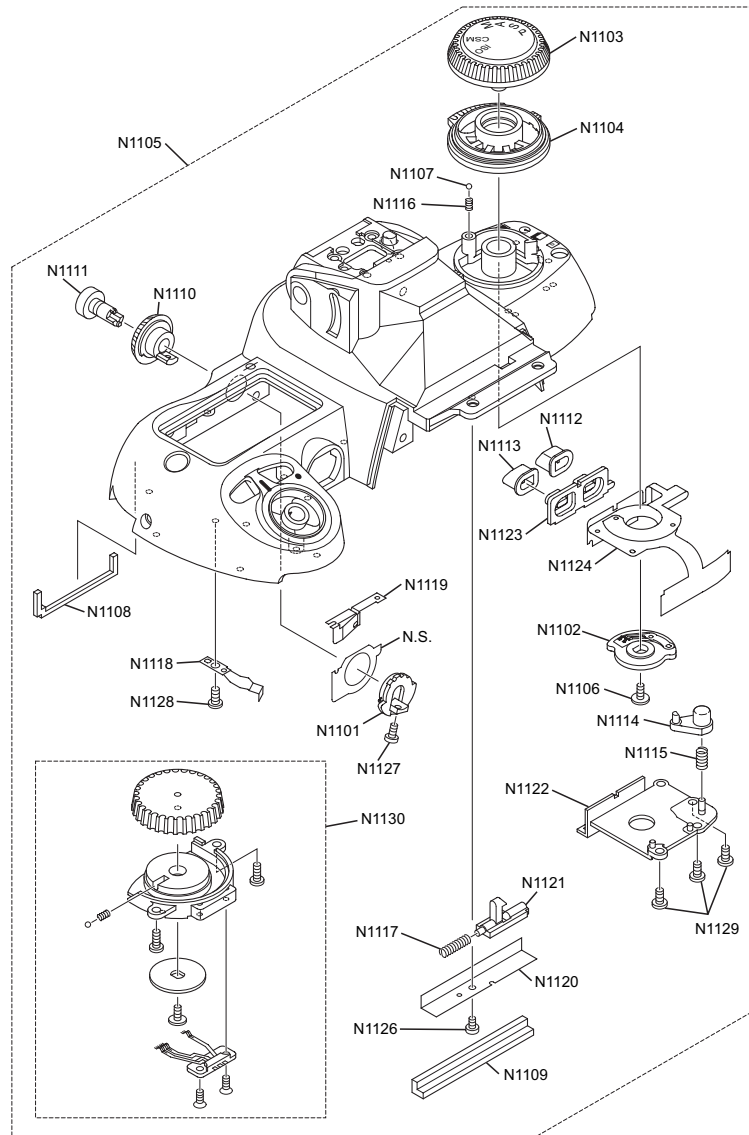
N.S.=Not Supply

| Ref No. | Parts No. | Description | Comment | EL | Ref No. | Parts No. | Description | Comment | EL |
|---------|-------------|------------------------------|---------|----|---------|-------------|------------------------|---------|----|
| N1001 | 1B060-663 | AF ASSIST LAMP UNIT | | N | N1021 | 1K208-245-2 | RELEASE BUTTON | | N |
| N1002 | 1B610-158 | RELEASE SWITCH UNIT | | N | N1022 | 1K241-311 | POWER DIAL SW BRUSH | | N |
| N1003 | 1C998-044 | SUB C/D BASE UNIT | | N | N1023 | 1K601-630 | POWER DIAL CLICK PLATE | | N |
| N1004 | 1C998-362 | EXTERNAL LCD BASE UNIT | | N | N1024 | 1K601-647 | BENT PLATE | | N |
| N1005 | 1C998-689 | TOP COVER UNIT | | N | N1025 | 1K682-420 | AF ASSIST LAMP COVER | | N |
| N.S. | N.S. | SCREW | | N | N1026 | 1K682-423 | RELEASE BUTTON SLEEVE | | N |
| N.S. | N.S. | SCREW | | N | N1027 | 1S758-088 | RUBBER SW | | N |
| N1008 | 1K010-501 | SCREW | | N | N1028 | 1S758-089 | ILLUMINATION RUBBER SW | | N |
| N1009 | 1K060-054 | E-RING | | N | N.S. | N.S. | GND LEAD WIRE | | N |
| N1010 | 1K103-738 | CUSHION F | | N | N.S. | N.S. | GND LEAD WIRE | | N |
| N1011 | 1K119-213 | EXPOSURE PREVENT SPONGE | | N | N1031 | 1S998-505 | C/D FPC UNIT | | N |
| N1012 | 1K119-214 | SPONGE | | N | N1032 | 1S998-507 | AE LOCK BUTTON UNIT | | N |
| N1013 | 1K119-237 | ADHESIVE DOUBLE COATED TAPE | | N | N.S. | N.S. | FPC UNIT FOR TOP COVER | | N |
| N.S. | N.S. | TAPE | | N | N1034 | G1-17030FA | SCREW | | N |
| N1015 | 1K119-329-1 | TAPE | | N | N1035 | G1-17040FA | SCREW | | N |
| N.S. | N.S. | ADHESIVE DOUBLE COATED TAPE | | N | N1036 | G1-17060FA | SCREW | | N |
| N1017 | 1K206-171 | POWER DIAL | | N | N.S. | N.S. | SCREW | | N |
| N1018 | 1K208-242 | EXPOSURE COMPENSATION BUTTON | | N | N.S. | N.S. | INSULATE TAPE | | N |
| N1019 | 1K208-243 | COMPENSATION BUTTON | | N | | | | | |
| N1020 | 1K208-244 | ILLUMINATION ON/OFF BUTTON | | N | | | | | |

6. Parts List

6-6-3. TOP COVER 3

★ Revised: 27. Dec. 2004

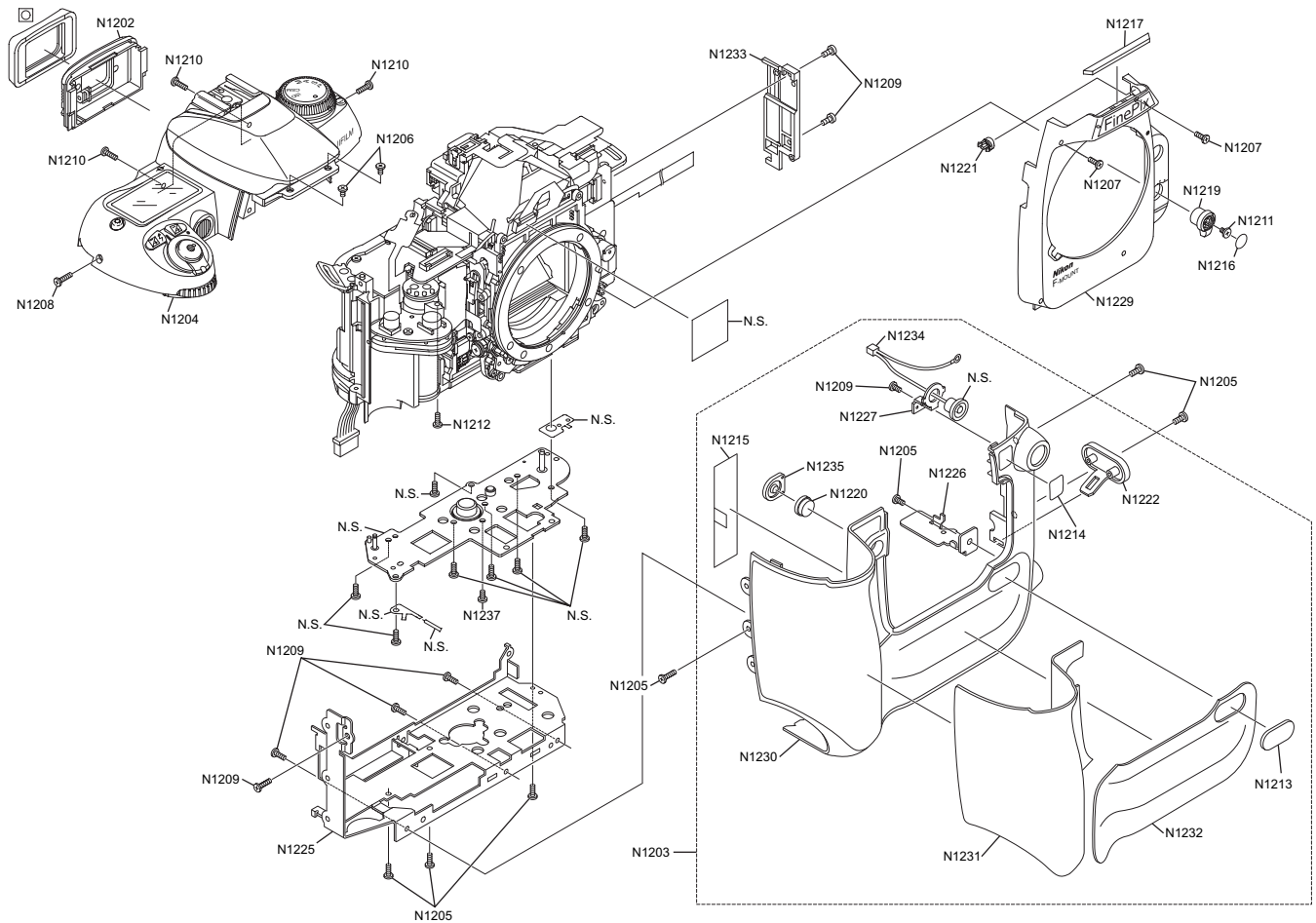


N.S.=Not Supply

| Ref No. | Parts No. | Description | Comment | EL | Ref No. | Parts No. | Description | Comment | EL |
|---------|-----------|-------------------------------|---------|----|---------|-------------|----------------------------|---------|----|
| N1101 | 1C998-046 | METERING MODE DIAL UNIT | | N | N1116 | 1K220-532 | MODE DIAL CLICK SPRING | | N |
| N1102 | 1C998-048 | MODE DIAL SW SPRING UNIT | | N | N1117 | 1K220-548 | SB LOCK LEVER SPRING | | N |
| N1103 | 1C998-070 | MODE DIAL UNIT | | N | N1118 | 1K241-310 | POWER DIAL CLICK SPRING | | N |
| N1104 | 1C998-071 | WINDING DIAL UNIT | | N | N1119 | 1K241-313 | METERING MODE CLICK SPRING | | N |
| N1105 | 1C998-689 | TOP COVER UNIT | | N | N1120 | 1K612-480 | SB LOCK LEVER RETAINER | | N |
| N1106 | 1K010-146 | SCREW | | N | N1121 | 1K682-418 | SB LOCK LEVER | | N |
| N1107 | 1K078-011 | CLICK BALL | | N | N1122 | 1K682-427-1 | PLATE | | N |
| N1108 | 1K119-318 | DROP PROOF SPONGE | | N | N1123 | 1S758-090 | RUBBER BUTTON | | N |
| N1109 | 1K119-327 | DROP PROOF SPONGE | | N | N1124 | 1S998-502 | M/D FPC UNIT | | N |
| N1110 | 1K201-143 | METERING MODE DIAL | | N | N.S. | N.S. | MEASURING MODE DIAL UNIT | | N |
| N1111 | 1K208-246 | AE LOCK BUTTON | | N | N1126 | G1-14025FD | SCREW | | N |
| N1112 | 1K208-247 | REWIND SIDE PUSH BUTTON CAP A | | N | N1127 | G1-14030FA | SCREW | | N |
| N1113 | 1K208-248 | REWIND SIDE PUSH BUTTON CAP B | | N | N1128 | G1-17025FA | SCREW | | N |
| N1114 | 1K208-249 | WINDING LOCK MOLD | | N | N1129 | H1-17030FA | SCREW | | N |
| N1115 | 1K220-496 | SPRING | | N | N1130 | 1C998-043 | MAIN C/D BASE UNIT | | N |

6-6-4. CAMERA BODY External

★ Revised: 27. Dec. 2004




N.S.=Not Supply










| Ref No. | Parts No. | Description | Comment | EL | Ref No. | Parts No. | Description | Comment | EL |
|---------|------------|---------------------|---------|----|---------|------------|-------------------|---------|----|
| N.S. | N.S. | SYNC TERMINAL | | N | N1221 | 1K208-241 | FLASH UP BUTTON | | N |
| N1202 | 1C998-687 | EYE PIECE BASE UNIT | | N | N1222 | 1K467-267 | JACK COVER | | N |
| N1203 | 1C998-688 | FRONT CABINET UNIT | | N | N.S. | N.S. | PAG PLATE | | N |
| N1204 | 1C998-689 | TOP COVER UNIT | | N | N.S. | N.S. | LAG PLATE | | N |
| N1205 | 1K001-288 | SCREW | | N | N1225 | 1K602-644 | MAIN FRAME | | N |
| N1206 | 1K010-462 | SCREW | | N | N1226 | 1K602-645 | JACK PLATE | | N |
| N1207 | 1K010-463 | SCREW | | N | N1227 | 1K602-646 | SYNC. BRACKET | | N |
| N1208 | 1K010-464 | SCREW | | N | N.S. | N.S. | BOTTOM BASE PLATE | | N |
| N1209 | 1K010-648 | SCREW | | N | N1229 | 1K683-083 | FRONT COVER BLACK | | N |
| N1210 | 1K010-483 | SCREW | | N | N1230 | 1K683-084 | FRONT CABINET | | N |
| N1211 | 1K010-259 | SCREW | | N | N1231 | 1K683-086 | RUBBER SGF | | N |
| N1212 | H1-17060FA | SCREW | | N | N1232 | 1K683-087 | RUBBER TGF | | N |
| N1213 | 1K087-632 | MODEL BADGE | | N | N1233 | 1K683-088 | BODY PART | | N |
| N1214 | 1K087-633 | CCD BADGE | | N | N1234 | 1S045-389 | SYNC. HANES UNIT | | N |
| N1215 | 1K103-739 | SHEET F1 | | N | N1235 | 1S758-085 | PREVIEW BUTTON SW | | N |
| N1216 | 1K119-201 | A/M COVER PLATE | | N | N.S. | N.S. | GND LEAD WIRE | | N |
| N1217 | 1K119-326 | DROP PROOF SPONGE | | N | N1237 | G1-20035FD | SCREW | | N |
| N.S. | N.S. | TAPE | | N | N.S. | N.S. | SCREW | | N |
| N1219 | 1K206-170 | A/M CHANGE LEVER | | N | | | | | |
| N1220 | 1K208-240 | PREVIEW BUTTON | | N | | | | | |

6-7. Electrical parts

[NOTE]

The components indicated by mark  are critical for safety. When indicated parts by reference number, please include the board name.

* Due to standardization, replacement in the parts list may be different from the parts list specified in the circuit or the components used on the set.

| Ref No. | Parts No. | Description | Comment | EL | Ref No. | Parts No. | Description | Comment | EL |
|---|-------------|---------------------|----------------------|----|--------------|-------------|-------------|----------------------|----|
| MAIN PWB ASSY | | | | | SW PWB ASSY | | | | |
| [SWITCH] | | | | | [CONNECTOR] | | | | |
| SW200 | FZ05764-100 | PUSH SWITCH | | N | CN1000 | FGB144-0061 | CONNECTOR | CJ 6P FN 0.5MM NH N | |
| [FUSE] | | | | | CN1001 | FGB144-0221 | CONNECTOR | CJ 22P FN 0.5MM NH N | |
|  F600 | FP00039-253 | FUSE | 2.5A 32V UL | N | CN1002 | FGB145-0451 | CONNECTOR | CJ 45P FN 0.3MM NH N | |
|  F601 | FP00018-503 | FUSE | 5A | N | CCD PWB ASSY | | | | |
|  F603 | FP00039-253 | FUSE | 2.5A 32V UL | N | [CONNECTOR] | | | | |
|  F604 | FP00039-203 | FUSE | 2A 32V UL | N | CN900 | FGB145-0571 | CONNECTOR | CJ 57P FN 0.3MM NH N | |
|  F606 | FP00039-103 | FUSE | 1A 32V UL | N | | | | | |
|  F607 | FP00039-203 | FUSE | 2A 32V UL | N | | | | | |
|  F701 | FP00039-203 | FUSE | 2A 32V UL | N | | | | | |
|  F702 | FP00039-203 | FUSE | 2A 32V UL | N | | | | | |
|  F703 | FP00040-503 | FUSE | 5A 24V UL | N | | | | | |
| [CONNECTOR] | | | | | | | | | |
| CN100 | FGB145-0571 | CONNECTOR | CJ 57P FN 0.3MM NH N | | | | | | |
| CN101 | FGB144-0061 | CONNECTOR | CJ 6P FN 0.5MM NH N | | | | | | |
| CN102 | FGB145-0451 | CONNECTOR | CJ 45P FN 0.3MM NH N | | | | | | |
| CN103 | FGB106-0121 | CONNECTOR | CJ 12P FN 0.5MM NH N | | | | | | |
| CN104 | FGA113-0021 | CONNECTOR | CJ 2P RN 1.5MM PH N | | | | | | |
| CN300 | FZ05869-100 | JACK | IEEE1394 | N | | | | | |
| CN400 | FZ05744-100 | JACK | USB MINI-B | N | | | | | |
| CN500 | FGB144-0241 | CONNECTOR | CJ 24P FN 0.5MM NH N | | | | | | |
| CN501 | FGA155-0021 | CONNECTOR | CJ 2P SN 0.8MM RH N | | | | | | |
| CN600 | FGA042-0022 | CONNECTOR | LJ 2P SN 2MM PN N | | | | | | |
| CN700 | FGA137-0062 | CONNECTOR | LJ 6P RB 2.0MM PH N | | | | | | |
| CN800 | FGY067-0201 | CONNECTOR | CJ 20P B 1MM NN N | | | | | | |
| CN801 | FZ04925-100 | JACK_CF CONNECTOR | CF CONNECTOR | N | | | | | |
| [JACK] | | | | | | | | | |
| J100 | FZ04373-100 | JACK_HSJ1456-010325 | | N | | | | | |
| J601 | FZ05847-100 | JACK | | N | | | | | |
| [BATTERY] | | | | | | | | | |
| BT200 | FZ05964-100 | BATTERY | BackUp | = | | | | | |
| [BUZZER] | | | | | | | | | |
| BZ100 | FZ04744-100 | BUZZER | | N | | | | | |

7-1. List of Related Technical Updates Issued

[illegible]



FUJI PHOTO FILM CO., LTD.

26-30, Nishiazabu 2-chome, Minato-ku, Tokyo 106-8620, Japan.